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<110> INCYTE GENOMICS, INC.

TANG, Y. Tom  
LAL, Preeti  
HILLMAN, Jennifer L.  
YUE, Henry  
GUEGLER, Karl J.  
CORLEY, Neil C.  
BANDMAN, Olga  
PATTERSON, Chandra  
GORGONE, Gina A.  
KASER, Matthew R.  
BAUGHN, Mariah R.  
AU-YOUNG, Janice

<120> HUMAN TRANSMEMBRANE PROTEINS

<130> PF-0526 USN

<140> To Be Assigned

<141> Herewith

<150> 60/087,260

<151> 05-29-1998

<150> 60/091,674

<151> 07-02-1998

<150> 60/102,954

<151> 10-02-1998

<150> 60/109,869

<151> 11-24-1998

<160> 158

<170> PERL Program

<210> 1

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 153831

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His	His	Pro	Pro	Leu	Val	Cys	Ala	Thr	Leu	Ile	Leu	Leu	Leu	Leu
				20				25					30	
Gly	Leu	Ser	Gly	Leu	Gly	Leu	Gly	Ser	Phe	Leu	Leu	Thr	His	Arg
				35				40					45	
Thr	Gly	Leu	Arg	Ser	Pro	Asp	Ile	Pro	Gln	Asp	Trp	Val	Ser	Phe
				50				55					60	

PF-0526 USN

Leu Arg Ser Phe Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr  
 65 70 75  
 Val Thr Gly Lys Trp Arg Gly Ser His Val Val Gly Leu Leu Thr  
 80 85 90  
 Thr Leu Asn Phe Gly Asp Gly Pro Asp Arg Asn Lys Thr Arg Thr  
 95 100 105  
 Phe Gln Ala Thr Val Leu Gly Ser Gln Met Gly Leu Lys Gly Ser  
 110 115 120  
 Ser Ala Gly Gln Leu Val Leu Ile Thr Ala Arg Val Thr Thr Glu  
 125 130 135  
 Arg Thr Ala Gly Thr Cys Leu Tyr Phe Ser Ala Val Pro Gly Ile  
 140 145 150  
 Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys Ser Glu Glu Gly Ala  
 155 160 165  
 Gly Asn Ala Thr Leu Ser Pro Arg Met Gly Glu Glu Cys Val Ser  
 170 175 180  
 Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu Leu Thr Ser  
 185 190 195  
 Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu Gly Ser  
 200 205 210  
 Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala Met  
 215 220 225  
 Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu  
 230 235 240

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<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 350629

<400> 2

Met Glu Gly Leu Arg Ser Ser Val Glu Leu Asp Pro Glu Leu Thr  
 1 5 10 15  
 Pro Gly Lys Leu Asp Glu Glu Met Val Gly Leu Pro Pro His Asp  
 20 25 30  
 Ala Ser Pro Gln Val Thr Phe His Ser Leu Asp Gly Lys Thr Val  
 35 40 45  
 Val Cys Pro His Phe Met Gly Leu Leu Leu Gly Leu Leu Leu Leu  
 50 55 60  
 Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg Gly Glu Arg  
 65 70 75  
 Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys Ser Gln  
 80 85 90  
 Leu Ile Gly Lys Lys Thr Asp Cys Arg Asp  
 95 100

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<212> PRT

PF-0526 USN

<213> Homo sapiens

<220>

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<223> Incyte ID No: 729171

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Met Ser Gly His Arg Ser Thr Arg Lys Arg Cys Gly Asp Ser His  
1 5 10 15  
Pro Glu Ser Pro Val Gly Phe Gly His Met Ser Thr Thr Gly Cys  
20 25 30  
Val Leu Asn Lys Leu Phe Gln Leu Pro Thr Pro Pro Leu Ser Arg  
35 40 45  
His Gln Leu Lys Arg Leu Glu Glu His Arg Tyr Gln Ser Ala Gly  
50 55 60  
Arg Ser Leu Leu Glu Pro Leu Val Gln Gly Tyr Trp Glu Trp Leu  
65 70 75  
Val Arg Arg Val Pro Ser Trp Ile Ala Pro Asn Leu Ile Thr Ile  
80 85 90  
a1 Ile Gly Leu Ser Ile Asn Ile Cys Thr Thr Ile Leu Leu Val Phe  
95 100 105  
Tyr Cys Pro Thr Ala Thr Glu Gln Ala Pro Leu Trp Ala Tyr Ile  
110 115 120  
Ala Cys Ala Cys Gly Leu Phe Ile Tyr Gln Ser Leu Asp Ala Ile  
125 130 135  
Gly Gly Lys Gln Ala Arg Arg Thr Asn Ser Ser Ser Pro Leu Gly  
140 145 150  
Glu Leu Phe Asp His Gly Cys Asp Ser Leu Ser Thr Val Phe Val  
155 160 165  
Val Leu Gly Thr Cys Ile Ala Val Gln Leu Gly Thr Asn Pro Asp  
170 175 180  
Trp Met Phe Phe Cys Cys Phe Ala Gly Thr Phe Met Phe Tyr Cys  
185 190 195  
Ala His Trp Gln Thr Tyr Val Ser Gly Thr Leu Arg Phe Gly Ile  
200 205 210  
Ile Asp Val Thr Glu Val Gln Ile Phe Ile Ile Ile Met His Leu  
215 220 225  
Leu Ala Val Met Gly Gly Pro Pro Phe Trp Gln Ser Met Ile Pro  
230 235 240  
Val Leu Asn Ile Gln Met Lys Ile Phe Pro Ala Leu Cys Thr Val  
245 250 255  
Ala Gly Thr Ile Phe Pro Val Thr Asn Tyr Phe Arg Val Ile Phe  
260 265 270  
Thr Gly Gly Val Gly Lys Asn Gly Ser Thr Ile Ala Gly Thr Ser  
275 280 285  
Val Leu Ser Pro Phe Leu His Ile Gly Ser Val Ile Thr Leu Ala  
290 295 300  
Ala Met Ile Tyr Lys Lys Ser Ala Val Gln Leu Phe Glu Lys His  
305 310 315  
Pro Cys Leu Tyr Ile Leu Thr Phe Gly Phe Val Ser Ala Lys Ile  
320 325 330  
Thr Asn Lys Leu Val Val Ala His Met Thr Lys Ser Glu Met His  
335 340 345  
Leu His Asp Thr Ala Phe Ile Gly Pro Ala Leu Leu Phe Leu Asp

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	350		355		360
Gln Tyr Phe Asn Ser Phe Ile Asp Glu Tyr Ile Val Leu Trp Ile					
	365		370		375
Ala Leu Val Phe Ser Phe Phe Asp Leu Ile Arg Tyr Cys Val Ser					
	380		385		390
Val Cys Asn Gln Ile Ala Ser His Leu His Ile His Val Phe Arg					
	395		400		405
Ile Lys Val Ser Thr Ala His Ser Asn His His					
	410		415		

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<211> 224

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<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 1273641

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1	5		10		15
Leu Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg					
	20		25		30
Thr Leu Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys					
	35		40		45
Cys Cys Cys Pro Cys Cys Gln Arg Leu Leu Leu Thr Arg Lys Lys					
	50		55		60
Leu Gln Leu Leu Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys					
	65		70		75
Ile Thr Leu Thr Trp Trp Ala Leu Phe Ser Ser Pro Thr Glu Ser					
	80		85		90
Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile					
	95		100		105
Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu					
	110		115		120
Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn					
	125		130		135
Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr					
	140		145		150
Ala Leu Gln Pro Ser Ile Phe Ser Val Leu Ala Asn Gly Gly Gln					
	155		160		165
Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr Arg Ser Gln Val					
	170		175		180
Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val					
	185		190		195
Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val Gly Tyr					
	200		205		210
Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Leu Lys Ala					
	215		220		

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<211> 247

<212> PRT

PF-0526 USN

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1427389

<400> 5

Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly  
1 5 10 15  
Pro Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu  
20 25 30  
Arg Val Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser  
35 40 45  
Leu Leu Leu Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr  
50 55 60  
Asp Arg Ser Asp Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly  
65 70 75  
Ala Ala Val Ser Val Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr  
80 85 90  
Tyr Lys Leu Leu Lys Lys Ala Asp Glu Gly Leu Ala Ser Leu Ser  
95 100 105  
Glu Asp Gly Arg Ser Pro Ile Ser Ile Arg Gln Met Ala Tyr Val  
110 115 120  
Ser Gly Leu Ser Phe Gly Ile Ile Ser Gly Val Phe Ser Val Ile  
125 130 135  
Asn Ile Leu Ala Asp Ala Leu Gly Pro Gly Val Val Gly Ile His  
140 145 150  
Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser Ala Phe Leu Thr Ala  
155 160 165  
Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val Val Phe Phe Asp  
170 175 180  
Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu Val Val Gly  
185 190 195  
Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro Trp Tyr  
200 205 210  
Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met Gly  
215 220 225  
Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln  
230 235 240  
Arg Ser Leu Leu Cys Lys Asp  
245

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<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1458357

<400> 6

Met Tyr Trp Leu His Gln Asp Met Phe Trp Leu Leu Val Leu Ile  
1 5 10 15

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Leu	Ile	Cys	Leu	Val	Thr	His	Leu	Ile	Thr	Arg	Glu	Thr	Ile	Tyr
				20					25					30
Val	Lys	Ser	Leu	Phe	Tyr	Phe	Lys	Ile	Leu	Phe	Val	Tyr	Leu	Glu
				35					40					45
Ser	Lys	Pro	Ala	His	Cys	Asn	Leu	Cys	Leu	Tyr	Ala	Lys	Glu	Leu
				50					55					60
Asp	Phe	Phe	Val	Phe	Val	Leu	Phe	Phe	Lys	Leu	Leu			
				65					70					

<210> 7

<211> 106

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 1482837

<400> 7

Met	His	Tyr	Gly	Phe	Leu	Leu	Trp	Ser	Gly	Lys	Lys	Arg	Gly	Leu
1				5					10					15
Ala	Gly	Pro	Gln	Gly	Ile	Cys	Lys	Ser	Gln	Lys	Thr	Val	Phe	Leu
				20					25					30
Thr	Ala	Arg	Cys	His	Ser	Thr	Leu	Val	Gly	Lys	Glu	Glu	Lys	Lys
				35					40					45
Ile	Lys	Leu	Phe	His	Arg	Thr	Ser	Trp	Pro	Pro	His	Ser	His	Ala
				50					55					60
Leu	Pro	Thr	Gln	Pro	Gly	Pro	Leu	Pro	Ala	Pro	Phe	Ile	Lys	Ala
				65					70					75
Glu	Arg	Val	Glu	Leu	Ile	Phe	Thr	Asn	Cys	Asn	Ile	Phe	Val	Val
				80					85					90
Ser	Val	Ser	Ser	Phe	Val	Ser	Ser	Ala	Glu	Pro	Cys	Pro	Phe	Leu
				95					100					105

Leu

<210> 8

<211> 239

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 1517434

<400> 8

Met	Cys	Val	Thr	Gln	Leu	Arg	Leu	Ile	Phe	Tyr	Met	Gly	Ala	Met
1				5					10					15
Asn	Asn	Ile	Leu	Lys	Phe	Leu	Val	Ser	Gly	Asp	Gln	Lys	Thr	Val
				20					25					30
Gly	Leu	Tyr	Thr	Ser	Ile	Phe	Gly	Val	Leu	Gln	Leu	Leu	Cys	Leu
				35					40					45
Leu	Thr	Ala	Pro	Val	Ile	Gly	Tyr	Ile	Met	Asp	Trp	Arg	Leu	Lys
				50					55					60

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al

Glu	Cys	Glu	Asp	Ala	Ser	Glu	Glu	Pro	Glu	Glu	Lys	Asp	Ala	Asn	
				65					70					75	
Gln	Gly	Glu	Lys	Lys	Lys	Lys	Lys	Arg	Asp	Arg	Gln	Ile	Gln	Lys	
				80					85					90	
Ile	Thr	Asn	Ala	Met	Arg	Ala	Phe	Ala	Phe	Thr	Asn	Leu	Leu	Leu	
				95					100					105	
Val	Gly	Phe	Gly	Val	Thr	Cys	Leu	Ile	Pro	Asn	Leu	Pro	Leu	Gln	
				110					115					120	
Ile	Leu	Ser	Phe	Ile	Leu	His	Thr	Ile	Val	Arg	Gly	Phe	Ile	His	
				125					130					135	
Ser	Ala	Val	Gly	Gly	Leu	Tyr	Ala	Ala	Val	Tyr	Pro	Ser	Thr	Gln	
				140					145					150	
Phe	Gly	Ser	Leu	Thr	Gly	Leu	Gln	Ser	Leu	Ile	Ser	Ala	Leu	Phe	
				155					160					165	
Ala	Leu	Leu	Gln	Gln	Pro	Leu	Phe	Leu	Ala	Met	Met	Gly	Pro	Leu	
				170					175					180	
Gln	Gly	Asp	Pro	Leu	Trp	Val	Asn	Val	Gly	Leu	Leu	Leu	Leu	Ser	
				185					190					195	
Leu	Leu	Gly	Phe	Cys	Leu	Pro	Leu	Tyr	Leu	Ile	Cys	Tyr	Arg	Arg	
				200					205					210	
Gln	Leu	Glu	Arg	Gln	Leu	Gln	Gln	Arg	Gln	Glu	Asp	Asp	Lys	Leu	
				215					220					225	
Phe	Leu	Lys	Ile	Asn	Gly	Ser	Ser	Asn	Gln	Glu	Ala	Phe	Val		
				230					235						

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<223> Incyte ID No: 1536052

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Met	Trp	Leu	Pro	Trp	Ala	Leu	Leu	Leu	Leu	Trp	Val	Pro	Ala	Ser	
1				5					10					15	
Thr	Ser	Met	Thr	Pro	Ala	Ser	Ile	Thr	Ala	Ala	Lys	Thr	Ser	Thr	
				20					25					30	
Ile	Thr	Thr	Ala	Phe	Pro	Pro	Val	Ser	Ser	Thr	Thr	Leu	Phe	Ala	
				35					40					45	
Val	Gly	Ala	Thr	His	Ser	Ala	Ser	Ile	Gln	Glu	Glu	Thr	Glu	Glu	
				50					55					60	
Val	Val	Asn	Ser	Gln	Leu	Pro	Leu	Leu	Leu	Ser	Leu	Leu	Ala	Leu	
				65					70					75	
Leu	Leu	Leu	Leu	Leu	Val	Gly	Ala	Ser	Leu	Leu	Ala	Trp	Arg	Met	
				80					85					90	
Phe	Gln	Lys	Trp	Ile	Lys	Ala	Gly	Asp	His	Ser	Glu	Leu	Ser	Gln	
				95					100					105	
Asn	Pro	Lys	Gln	Ala	Ser	Pro	Arg	Glu	Glu	Leu	His	Tyr	Ala	Ser	
				110					115					120	
Val	Val	Phe	Asp	Ser	Asn	Thr	Asn	Arg	Ile	Ala	Ala	Gln	Arg	Pro	
				125					130					135	
Arg	Glu	Glu	Glu	Pro	Asp	Ser	Asp	Tyr	Ser	Val	Ile	Arg	Lys	Thr	



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140

145

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<221> misc\_feature  
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Met Pro Ala Cys Ile Leu Glu Asp Val Glu Ile Ser Phe Arg Gln  
1 5 10 15  
Lys Trp Ser Ile Asn Ser Asp Thr Leu Leu Gly Cys Leu Thr Leu  
20 25 30  
Phe Ile Ser Ala Phe Phe Ala Ser Glu Thr Trp Gln Lys Leu Val  
35 40 45  
Ser Gln Ser Thr Ala Phe Leu Thr Met Cys Gly Val Thr Tyr Ala  
50 55 60  
Trp Tyr Met Pro Leu Leu Leu Lys Phe Tyr Ser Leu Leu Leu  
65 70 75  
Ala Gln Val Leu Leu Asn Pro Phe Leu Met Cys Thr Gly Trp Arg  
80 85 90  
Lys Asn Tyr Ser Gln His Phe Glu Arg Lys Val Phe Arg Asn Asn  
95 100 105  
Ile Asn Trp His Tyr  
110

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<223> Incyte ID No: 1675560

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Met Leu Val Thr Asn Ile Thr Val Asn Arg Ser Leu Leu His Ala  
1 5 10 15  
Lys Asp Gln Cys Asp Leu Trp Met Glu Met Ile Val Met Lys Phe  
20 25 30  
Leu Phe His Gly Ala Val Phe Leu Phe Ile Ser Leu Gly Ser Arg  
35 40 45  
Phe Ser Glu Ala Val Arg Cys Cys Cys Cys Gly Phe Leu  
50 55

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<213> Homo sapiens

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<220>

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<223> Incyte ID No: 1687323

<400> 12

Met Ala Ala Ser Ser Ile Ser Ser Pro Trp Gly Lys His Val Phe  
1 5 10 15  
Lys Ala Ile Leu Met Val Leu Val Ala Leu Ile Leu Leu His Ser  
20 25 30  
Ala Leu Ala Gln Ser Arg Arg Asp Phe Ala Pro Pro Gly Gln Gln  
35 40 45  
Lys Arg Glu Ala Pro Val Asp Val Leu Thr Gln Ile Gly Arg Ser  
50 55 60  
Val Arg Gly Thr Leu Asp Ala Trp Ile Gly Pro Glu Thr Met His  
65 70 75  
Leu Val Ser Glu Ser Ser Ser Gln Val Leu Trp Ala Ile Ser Ser  
80 85 90  
Ala Ile Ser Val Ala Phe Phe Ala Leu Ser Gly Ile Ala Ala Gln  
95 100 105  
Leu Leu Asn Ala Leu Gly Leu Ala Gly Asp Tyr Leu Ala Gln Gly  
110 115 120  
Leu Lys Leu Ser Pro Gly Gln Val Gln Thr Phe Leu Leu Trp Gly  
125 130 135  
Ala Gly Ala Leu Val Val Tyr Trp Leu Leu Ser Leu Leu Leu Gly  
140 145 150  
Leu Val Leu Ala Leu Leu Gly Arg Ile Leu Trp Gly Leu Lys Leu  
155 160 165  
Val Ile Phe Leu Ala Gly Phe Val Ala Leu Met Arg Ser Val Pro  
170 175 180  
Asp Pro Ser Thr Arg Ala Leu Leu Leu Leu Ala Leu Leu Ile Leu  
185 190 195  
Tyr Ala Leu Leu Ser Arg Leu Thr Gly Ser Arg Ala Ser Gly Ala  
200 205 210  
Gln Leu Glu Ala Lys Val Arg Gly Leu Glu Arg  
215 220

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<223> Incyte ID No: 1692236

<400> 13

Met Ala Leu Gly Leu Lys Cys Phe Arg Met Val His Pro Thr Phe  
1 5 10 15  
Arg Asn Tyr Leu Ala Ala Ser Ile Arg Pro Val Ser Glu Val Thr  
20 25 30  
Leu Lys Thr Val His Glu Arg Gln His Gly His Arg Gln Tyr Met  
35 40 45  
Ala Tyr Ser Ala Val Pro Val Arg His Phe Ala Thr Lys Lys Ala  
50 55 60

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ai

Lys	Ala	Lys	Gly	Lys	Gly	Gln	Ser	Gln	Thr	Arg	Val	Asn	Ile	Asn	
				65					70					75	
Ala	Ala	Leu	Val	Glu	Asp	Ile	Ile	Asn	Leu	Glu	Glu	Val	Asn	Glu	
				80					85					90	
Glu	Met	Lys	Ser	Val	Ile	Glu	Ala	Leu	Lys	Asp	Asn	Phe	Asn	Leu	
				95					100					105	
Thr	Leu	Asn	Ile	Arg	Ala	Ser	Pro	Gly	Ser	Leu	Asp	Lys	Ile	Ala	
				110					115					120	
Val	Val	Thr	Ala	Asp	Gly	Lys	Leu	Ala	Leu	Asn	Gln	Ile	Ser	Gln	
				125					130					135	
Ile	Ser	Met	Lys	Ser	Pro	Gln	Leu	Ile	Leu	Val	Asn	Met	Ala	Ser	
				140					145					150	
Phe	Pro	Glu	Cys	Thr	Ala	Ala	Ala	Ile	Lys	Ala	Ile	Arg	Glu	Ser	
				155					160					165	
Gly	Met	Asn	Leu	Asn	Pro	Glu	Val	Glu	Gly	Thr	Leu	Ile	Arg	Val	
				170					175					180	
Pro	Ile	Pro	Gln	Val	Thr	Arg	Glu	His	Arg	Glu	Met	Leu	Val	Lys	
				185					190					195	
Leu	Ala	Lys	Gln	Asn	Thr	Asn	Lys	Ala	Lys	Asp	Ser	Leu	Arg	Lys	
				200					205					210	
Val	Arg	Thr	Asn	Ser	Met	Asn	Lys	Leu	Lys	Lys	Ser	Lys	Asp	Thr	
				215					220					225	
Val	Ser	Glu	Asp	Thr	Ile	Arg	Leu	Ile	Glu	Lys	Gln	Ile	Ser	Gln	
				230					235					240	
Met	Ala	Asp	Asp	Thr	Val	Ala	Glu	Leu	Asp	Arg	His	Leu	Ala	Val	
				245					250					255	
Lys	Thr	Lys	Glu	Leu	Leu	Gly									
				260											

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<223> Incyte ID No: 1720847

<400> 14

Met	Glu	Ala	Ala	Met	Glu	Trp	Glu	Gly	Gly	Ala	Ile	Arg	His	Pro	
1				5					10					15	
Ser	Thr	Glu	Leu	Gly	Ile	Met	Gly	Ser	Trp	Phe	Tyr	Leu	Phe	Leu	
				20					25					30	
Ala	Pro	Leu	Phe	Lys	Gly	Leu	Ala	Gly	Ser	Leu	Pro	Phe	Gly	Cys	
				35					40					45	
Leu	Ser	Leu	Leu	Gln	Pro	Thr	Glu	Lys	Thr	Ala	Leu	Gln	Arg	Trp	
				50					55					60	
Arg	Val	Phe	Met	Lys	His	Ser	Cys	Gln	Glu	Pro	Arg	His	Arg	Ala	
				65					70					75	
Gly	Gly	Leu	Glu	Lys	Gly	Gly	His	Thr	Gly	Gly	Gly	Arg	Ser	Trp	
				80					85					90	

<210> 15

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<211> 208

<212> PRT

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<220>

<221> misc\_feature

<223> Incyte ID No: 1752821

<400> 15

Met Ala Ser Ser Leu Leu Ala Gly Glu Arg Leu Val Arg Ala Leu  
1 5 10 15  
Gly Pro Gly Gly Glu Leu Glu Pro Glu Arg Leu Pro Arg Lys Leu  
20 25 30  
Arg Ala Glu Leu Glu Ala Ala Leu Gly Lys Lys His Lys Gly Gly  
35 40 45  
Asp Ser Ser Ser Gly Pro Gln Arg Leu Val Ser Phe Arg Leu Ile  
50 55 60  
Arg Asp Leu His Gln His Leu Arg Glu Arg Asp Ser Lys Leu Tyr  
65 70 75  
Leu His Glu Leu Leu Glu Gly Ser Glu Ile Tyr Leu Pro Glu Val  
80 85 90  
Val Lys Pro Pro Arg Asn Pro Glu Leu Val Ala Arg Leu Glu Lys  
95 100 105  
Ile Lys Ile Gln Leu Ala Asn Glu Glu Tyr Lys Arg Ile Thr Arg  
110 115 120  
Asn Val Thr Cys Gln Asp Thr Arg His Gly Gly Thr Leu Ser Asp  
125 130 135  
Leu Gly Lys Gln Val Arg Ser Leu Lys Ala Leu Val Ile Thr Ile  
140 145 150  
Phe Asn Phe Ile Val Thr Val Val Ala Ala Phe Val Cys Thr Tyr  
155 160 165  
Leu Gly Ser Gln Tyr Ile Phe Thr Glu Met Ala Ser Arg Val Leu  
170 175 180  
Ala Ala Leu Ile Val Ala Ser Val Val Gly Leu Ala Glu Leu Tyr  
185 190 195  
Val Met Val Arg Ala Met Glu Gly Glu Leu Gly Glu Leu  
200 205

<210> 16

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1810923

<400> 16

Met Thr Lys Lys Lys Arg Glu Asn Leu Gly Val Ala Leu Glu Ile  
1 5 10 15  
Asp Gly Leu Glu Glu Lys Leu Ser Gln Cys Arg Arg Asp Leu Glu  
20 25 30  
Ala Val Asn Ser Arg Leu His Ser Arg Glu Leu Ser Pro Glu Ala  
35 40 45

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Arg Arg Ser Leu Glu Lys Glu Lys Asn Ser Leu Met Asn Lys Ala  
50 55 60  
Ser Asn Tyr Glu Lys Glu Leu Lys Phe Leu Arg Gln Glu Asn Arg  
65 70 75  
Lys Asn Met Leu Leu Ser Val Ala Ile Phe Ile Leu Leu Thr Leu  
80 85 90  
Val Tyr Ala Tyr Trp Thr Met  
95

<210> 17

<211> 243

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1822315

<400> 17

Met Phe Phe Leu Ser Ser Ser Lys Leu Thr Lys Trp Lys Gly Glu  
1 5 10 15  
Val Lys Lys Arg Leu Asp Ser Glu Tyr Lys Glu Gly Gly Gln Arg  
20 25 30  
Asn Trp Val Gln Val Phe Cys Asn Gly Ala Val Pro Thr Glu Leu  
35 40 45  
Ala Leu Leu Tyr Met Ile Glu Asn Gly Pro Gly Glu Ile Pro Val  
50 55 60  
Asp Phe Ser Lys Gln Tyr Ser Ala Ser Trp Met Cys Leu Ser Leu  
65 70 75  
Leu Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr Trp Ala Ser Glu  
80 85 90  
Val Gly Pro Val Leu Ser Lys Ser Ser Pro Arg Leu Ile Thr Thr  
95 100 105  
Trp Glu Lys Val Pro Val Gly Thr Asn Gly Gly Val Thr Val Val  
110 115 120  
Gly Leu Val Ser Ser Leu Leu Gly Gly Thr Phe Val Gly Ile Ala  
125 130 135  
Tyr Phe Leu Thr Gln Leu Ile Phe Val Asn Asp Leu Asp Ile Ser  
140 145 150  
Ala Pro Gln Trp Pro Ile Ile Ala Phe Gly Gly Leu Ala Gly Leu  
155 160 165  
Leu Gly Ser Ile Val Asp Ser Tyr Leu Gly Ala Thr Met Gln Tyr  
170 175 180  
Thr Gly Leu Asp Glu Ser Thr Gly Met Val Val Asn Ser Pro Thr  
185 190 195  
Asn Lys Ala Arg His Ile Ala Gly Lys Pro Ile Leu Asp Asn Asn  
200 205 210  
Ala Trp Ile Cys Phe Leu Leu Phe Leu Leu Pro Ser Cys Ser Gln  
215 220 225  
Leu Leu Leu Gly Val Phe Gly Pro Gly Gly Glu Leu Tyr Phe Ile  
230 235 240  
Ser Thr Gly

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<210> 18

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1877777

<400> 18

Met Leu Gln Thr Ser Asn Tyr Ser Leu Val Leu Ser Leu Gln Phe  
1 5 10 15  
Leu Leu Leu Ser Tyr Asp Leu Phe Val Asn Ser Phe Ser Glu Leu  
20 25 30  
Leu Gln Lys Thr Pro Val Ile Gln Leu Val Leu Phe Ile Ile Gln  
35 40 45  
Asp Ile Ala Val Leu Phe Asn Ile Ile Ile Ile Phe Leu Met Phe  
50 55 60  
Phe Asn Thr Phe Val Phe Gln Ala Gly Leu Val Asn Leu Leu Phe  
65 70 75  
His Lys Phe Lys Gly Thr Ile Ile Leu Thr Ala Val Tyr Phe Ala  
80 85 90  
Leu Ser Ile Ser Leu His Val Trp Val Met Asn Leu Arg Trp Lys  
95 100 105  
Asn Ser Asn Ser Phe Ile Trp Thr Asp Gly Leu Gln Met Leu Phe  
110 115 120  
Val Phe Gln Arg Leu Ala Ala Val Leu Tyr Cys Tyr Phe Tyr Lys  
125 130 135  
Arg Thr Ala Val Arg Leu Gly Asp Pro His Phe Tyr Gln Asp Ser  
140 145 150  
Leu Trp Leu Arg Lys Glu Phe Met Gln Val Arg Arg  
155 160

<210> 19

<211> 470

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1879819

<400> 19

Met Leu Ser Pro Ser Pro Gly Lys Gly Pro Pro Pro Ala Val Ala  
1 5 10 15  
Pro Arg Pro Lys Ala Pro Leu Gln Leu Gly Pro Ser Ser Ser Ile  
20 25 30  
Lys Glu Lys Gln Gly Pro Leu Leu Asp Leu Phe Gly Gln Lys Leu  
35 40 45  
Pro Ile Ala His Thr Pro Pro Pro Pro Pro Ala Pro Pro Leu Pro  
50 55 60  
Leu Pro Glu Asp Pro Gly Thr Leu Ser Ala Glu Arg Arg Cys Leu  
65 70 75  
Thr Gln Pro Val Glu Asp Gln Gly Val Ser Thr Gln Leu Leu Ala

80 85 90  
 Pro Ser Gly Ser Val Cys Phe Ser Tyr Thr Gly Thr Pro Trp Lys  
 95 100 105  
 Leu Phe Leu Arg Lys Glu Val Phe Tyr Pro Arg Glu Asn Phe Ser  
 110 115 120  
 His Pro Tyr Tyr Leu Arg Leu Leu Cys Glu Gln Ile Leu Arg Asp  
 125 130 135  
 Thr Phe Ser Glu Ser Cys Ile Arg Ile Ser Gln Asn Glu Arg Arg  
 140 145 150  
 Lys Met Lys Asp Leu Leu Gly Gly Leu Glu Val Asp Leu Asp Ser  
 155 160 165  
 Leu Thr Thr Thr Glu Asp Ser Val Lys Lys Arg Ile Val Val Ala  
 170 175 180  
 Ala Arg Asp Asn Trp Ala Asn Tyr Phe Ser Arg Phe Phe Pro Val  
 185 190 195  
 Ser Gly Glu Ser Gly Ser Asp Val Gln Leu Leu Ala Val Ser His  
 200 205 210  
 Arg Gly Leu Arg Leu Leu Lys Val Thr Gln Gly Pro Gly Leu Arg  
 215 220 225  
 Pro Asp Gln Leu Lys Ile Leu Cys Ser Tyr Ser Phe Ala Glu Val  
 230 235 240  
 Leu Gly Val Glu Cys Arg Gly Gly Ser Thr Leu Glu Leu Ser Leu  
 245 250 255  
 Lys Ser Glu Gln Leu Val Leu His Thr Ala Arg Ala Arg Ala Ile  
 260 265 270  
 Glu Ala Leu Val Glu Leu Phe Leu Asn Glu Leu Lys Lys Asp Ser  
 275 280 285  
 Gly Tyr Val Ile Ala Leu Arg Ser Tyr Ile Thr Asp Asn Cys Ser  
 290 295 300  
 Leu Leu Ser Phe His Arg Gly Asp Leu Ile Lys Leu Leu Pro Val  
 305 310 315  
 Cys His Pro Gly Ala Arg Leu Ala Val Trp Leu Cys Arg Gly Pro  
 320 325 330  
 Phe Arg Thr Leu Ser Cys Arg His Ser Ala Ala Gly Cys Arg Ser  
 335 340 345  
 Arg Leu Phe Leu Leu Gln Gly Ala Glu Trp Leu Ala Gln Gly  
 350 355 360  
 Ser Ala Val Gln Arg Gly Thr Arg Ala Gly Ser Val Gly Gln Gly  
 365 370 375  
 Leu Arg Gly Glu Glu Asp Gly Arg Gly Thr Ser Arg Gly Lys Ala  
 380 385 390  
 Cys Leu Arg Leu Arg Lys Glu Arg Gly Leu Thr Thr Pro Glu Ala  
 395 400 405  
 Ala Met Arg Trp Asp His Pro Ala Val Arg Leu Leu Trp Leu Pro  
 410 415 420  
 Leu Cys Pro Leu Leu Met Ala Arg Leu Val Ser Pro Ala Arg Leu  
 425 430 435  
 Cys Thr Pro Cys Arg Gln Gly Leu Gly Trp Met Leu Leu Leu Cys  
 440 445 450  
 Pro Thr Trp Tyr Leu Val Gln Gly Cys Pro Ser Arg Cys Leu Ile  
 455 460 465  
 Asn Ser Ser Ser Leu  
 470

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<210> 20

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1932945

<400> 20

Met Glu Arg Glu Gly Ser Gly Gly Ser Gly Gly Ser Ala Gly Leu  
1 5 10 15  
Leu Gln Gln Ile Leu Ser Leu Lys Val Val Pro Arg Val Gly Asn  
20 25 30  
Gly Thr Leu Cys Pro Asn Ser Thr Ser Leu Cys Ser Phe Pro Glu  
35 40 45  
Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe  
50 55 60  
Phe His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His  
65 70 75  
His Lys Tyr Gly Arg Phe Met Ser Val Ser Ile Leu Leu Met Gly  
80 85 90  
Ile Val Gly Pro Ile Thr Ala Gly Ile Leu Thr Ser Ala Ala Ile  
95 100 105  
Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met Ile Pro Phe Glu  
110 115 120  
Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val Leu Val Val  
125 130 135  
Ser Phe Leu Arg Ile Leu Ala Thr Leu  
140

<210> 21

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2061026

<400> 21

Met Ala Leu Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys  
1 5 10 15  
Gly Ser Arg Tyr Gln Gln Leu Gln Asn Glu Glu Glu Ser Gly Glu  
20 25 30  
Pro Glu Gln Ala Ala Gly Asp Ala Pro Pro Pro Tyr Ser Ser Ile  
35 40 45  
Ser Ala Glu Ser Ala Ala Tyr Phe Asp Tyr Lys Asp Glu Ser Gly  
50 55 60  
Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr Thr Leu Pro Ser  
65 70 75  
Tyr Asp Glu Ala Arg Thr Lys Ala Glu Ala Thr Ile Pro Leu  
80 85 90  
Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp Phe Asp



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	95		100		105									
Asp	Ala	Asp	Gln	Leu	Arg	Ile	Gly	Asn	Asp	Gly	Ile	Phe	Met	Leu
	110								115					120
Thr	Phe	Phe	Met	Ala	Phe	Leu	Phe	Asn	Trp	Ile	Gly	Phe	Phe	Leu
	125								130					135
Ser	Phe	Cys	Leu	Thr	Thr	Ser	Ala	Ala	Gly	Arg	Tyr	Gly	Ala	Ile
	140								145					150
Ser	Gly	Phe	Gly	Leu	Ser	Leu	Ile	Lys	Trp	Ile	Leu	Ile	Val	Arg
	155								160					165
Phe	Ser	Thr	Tyr	Phe	Pro	Gly	Tyr	Phe	Asp	Gly	Gln	Tyr	Trp	Leu
	170								175					180
Trp	Trp	Val	Phe	Leu	Val	Leu	Gly	Phe	Leu	Leu	Phe	Leu	Arg	Gly
	185								190					195
Phe	Ile	Asn	Tyr	Ala	Lys	Val	Arg	Lys	Met	Pro	Glu	Thr	Phe	Ser
	200								205					210
Asn	Leu	Pro	Arg	Thr	Arg	Val	Leu	Phe	Ile	Tyr				
	215								220					

<210> 22

<211> 688

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2096687

<400> 22

Met	Ser	Ala	Glu	Ser	Gly	Pro	Gly	Thr	Arg	Leu	Arg	Asn	Leu	Pro
1				5					10					15
Val	Met	Gly	Asp	Gly	Leu	Glu	Thr	Ser	Gln	Met	Ser	Thr	Thr	Gln
			20						25					30
Ala	Gln	Ala	Gln	Pro	Gln	Pro	Ala	Asn	Ala	Ala	Ser	Thr	Asn	Pro
			35						40					45
Pro	Pro	Pro	Glu	Thr	Ser	Asn	Pro	Asn	Lys	Pro	Lys	Arg	Gln	Thr
			50						55					60
Asn	Gln	Leu	Gln	Tyr	Leu	Leu	Arg	Val	Val	Leu	Lys	Thr	Leu	Trp
			65						70					75
Lys	His	Gln	Phe	Ala	Trp	Pro	Phe	Gln	Gln	Pro	Val	Asp	Ala	Val
			80						85					90
Lys	Leu	Asn	Leu	Pro	Asp	Tyr	Tyr	Lys	Ile	Ile	Lys	Thr	Pro	Met
			95						100					105
Asp	Met	Gly	Thr	Ile	Lys	Lys	Arg	Leu	Glu	Asn	Asn	Tyr	Tyr	Trp
			110						115					120
Asn	Ala	Gln	Glu	Cys	Ile	Gln	Asp	Phe	Asn	Thr	Met	Phe	Thr	Asn
			125						130					135
Cys	Tyr	Ile	Tyr	Asn	Lys	Pro	Gly	Asp	Asp	Ile	Val	Leu	Met	Ala
			140						145					150
Glu	Ala	Leu	Glu	Lys	Leu	Phe	Leu	Gln	Lys	Ile	Asn	Glu	Leu	Pro
			155						160					165
Thr	Glu	Glu	Thr	Glu	Ile	Met	Ile	Val	Gln	Ala	Lys	Gly	Arg	Gly
			170						175					180
Arg	Gly	Arg	Lys	Glu	Thr	Gly	Thr	Ala	Lys	Pro	Gly	Val	Ser	Thr
			185						190					195

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Val Pro Asn Thr Thr Gln Ala Ser Thr Pro Pro Gln Thr Gln Thr  
 200 205 210  
 Pro Gln Pro Asn Pro Pro Pro Val Gln Ala Thr Pro His Pro Phe  
 215 220 225  
 Pro Ala Val Thr Pro Asp Leu Ile Val Gln Thr Pro Val Met Thr  
 230 235 240  
 Val Val Pro Pro Gln Pro Leu Gln Thr Pro Pro Pro Val Pro Pro  
 245 250 255  
 Gln Pro Gln Pro Pro Pro Ala Pro Ala Pro Gln Pro Val Gln Ser  
 260 265 270  
 His Pro Pro Ile Ile Ala Ala Thr Pro Gln Pro Val Lys Thr Lys  
 275 280 285  
 Lys Gly Val Lys Arg Lys Ala Asp Thr Thr Thr Pro Thr Thr Ile  
 290 295 300  
 Asp Pro Ile His Glu Pro Pro Ser Leu Pro Pro Glu Pro Lys Thr  
 305 310 315  
 Thr Lys Leu Gly Gln Arg Arg Glu Ser Ser Arg Pro Val Lys Pro  
 320 325 330  
 Pro Lys Lys Asp Val Pro Asp Ser Gln Gln His Pro Ala Pro Glu  
 335 340 345  
 Lys Ser Ser Lys Val Ser Glu Gln Leu Lys Cys Cys Ser Gly Ile  
 350 355 360  
 Leu Lys Glu Met Phe Ala Lys Lys His Ala Ala Tyr Ala Trp Pro  
 365 370 375  
 Phe Tyr Lys Pro Val Asp Val Glu Ala Leu Gly Leu His Asp Tyr  
 380 385 390  
 Cys Asp Ile Ile Lys His Pro Met Asp Met Ser Thr Ile Lys Ser  
 395 400 405  
 Lys Leu Glu Ala Arg Glu Tyr Arg Asp Ala Gln Glu Phe Gly Ala  
 410 415 420  
 Asp Val Arg Leu Met Phe Ser Asn Cys Tyr Lys Tyr Asn Pro Pro  
 425 430 435  
 Asp His Glu Val Val Ala Met Ala Arg Lys Leu Gln Asp Val Phe  
 440 445 450  
 Glu Met Arg Phe Ala Lys Met Pro Asp Glu Pro Glu Glu Pro Val  
 455 460 465  
 Val Ala Val Ser Ser Pro Ala Val Pro Pro Pro Thr Lys Val Val  
 470 475 480  
 Ala Pro Pro Ser Ser Ser Asp Ser Ser Ser Asp Ser Ser Ser Asp  
 485 490 495  
 Ser Asp Ser Ser Thr Asp Asp Ser Glu Glu Glu Arg Ala Gln Arg  
 500 505 510  
 Leu Ala Glu Leu Gln Glu Gln Leu Lys Ala Val His Glu Gln Leu  
 515 520 525  
 Ala Ala Leu Ser Gln Pro Gln Gln Asn Lys Pro Lys Lys Lys Glu  
 530 535 540  
 Lys Asp Lys Lys Glu Lys Lys Lys Glu Lys His Lys Arg Lys Glu  
 545 550 555  
 Glu Val Glu Glu Asn Lys Lys Ser Lys Ala Lys Glu Pro Pro Pro  
 560 565 570  
 Lys Lys Thr Lys Lys Asn Asn Ser Ser Asn Ser Asn Val Ser Lys  
 575 580 585  
 Lys Glu Pro Ala Pro Met Lys Ser Lys Pro Pro Pro Thr Tyr Glu  
 590 595 600

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Ser Glu Glu Glu Asp Lys Cys Lys Pro Met Ser Tyr Glu Glu Lys  
605 610  
Arg Gln Leu Ser Leu Asp Ile Asn Lys Leu Pro Gly Glu Lys Leu  
620 625 630  
Gly Arg Val Val His Ile Ile Gln Ser Arg Glu Pro Ser Leu Lys  
635 640 645  
Asn Ser Asn Pro Asp Glu Ile Glu Ile Asp Phe Glu Thr Leu Lys  
650 655 660  
Pro Ser Thr Leu Arg Glu Leu Gly Ala Leu Cys His Leu Leu Phe  
665 670 675  
Ala Glu Glu Lys Glu Thr Phe Lys Leu Arg Lys Leu Met  
680 685

<210> 23

<211> 439

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2100530

<220>

<221> unsure

<222> 434

<223> unknown or other

<400> 23

Met Gly Ser Gln Glu Val Leu Gly His Ala Ala Arg Leu Ala Ser  
1 5 10 15  
Ser Gly Leu Leu Leu Gln Val Leu Phe Arg Leu Ile Thr Phe Val  
20 25 30  
Leu Asn Ala Phe Ile Leu Arg Phe Leu Ser Lys Glu Ile Val Gly  
35 40 45  
Val Val Asn Val Arg Leu Thr Leu Leu Tyr Ser Thr Thr Leu Phe  
50 55 60  
Leu Ala Arg Glu Ala Phe Arg Arg Ala Cys Leu Ser Gly Gly Thr  
65 70 75  
Gln Arg Asp Trp Ser Gln Thr Leu Asn Leu Leu Trp Leu Thr Val  
80 85 90  
Pro Leu Gly Val Phe Trp Ser Leu Phe Leu Gly Trp Ile Trp Leu  
95 100 105  
Gln Leu Leu Glu Val Pro Asp Pro Asn Val Val Pro His Tyr Ala  
110 115 120  
Thr Gly Val Val Leu Phe Gly Leu Ser Ala Val Val Glu Leu Leu  
125 130 135  
Gly Glu Pro Phe Trp Val Leu Ala Gln Ala His Met Phe Val Lys  
140 145 150  
Leu Lys Val Ile Ala Glu Ser Leu Ser Val Ile Leu Lys Ser Val  
155 160 165  
Leu Thr Ala Phe Leu Val Leu Trp Leu Pro His Trp Gly Leu Tyr  
170 175 180  
Ile Phe Ser Leu Ala Gln Leu Phe Tyr Thr Thr Val Leu Val Leu  
185 190 195

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Cys Tyr Val Ile Tyr Phe Thr Lys Leu Leu Gly Ser Pro Glu Ser  
 200 205 210  
 Thr Lys Leu Gln Thr Leu Pro Val Ser Arg Ile Thr Asp Leu Leu  
 215 220 225  
 Pro Asn Ile Thr Arg Asn Gly Ala Phe Ile Asn Trp Lys Glu Ala  
 230 235 240  
 Lys Leu Thr Trp Ser Phe Phe Lys Gln Ser Phe Leu Lys Gln Ile  
 245 250 255  
 Leu Thr Glu Gly Glu Arg Tyr Val Met Thr Phe Leu Asn Val Leu  
 260 265 270  
 Asn Phe Gly Asp Gln Gly Val Tyr Asp Ile Val Asn Asn Leu Gly  
 275 280 285  
 Ser Leu Val Ala Arg Leu Ile Phe Gln Pro Ile Glu Glu Ser Phe  
 290 295 300  
 Tyr Ile Phe Phe Ala Lys Val Leu Glu Arg Gly Lys Asp Ala Thr  
 305 310 315  
 Leu Gln Lys Gln Glu Asp Val Ala Val Ala Ala Val Leu Glu  
 320 325 330  
 Ser Leu Leu Lys Leu Ala Leu Leu Ala Gly Leu Thr Ile Thr Val  
 335 340 345  
 Phe Gly Phe Ala Tyr Ser Gln Leu Ala Leu Asp Ile Tyr Gly Gly  
 350 355 360  
 Thr Met Leu Ser Ser Gly Ser Gly Pro Val Leu Leu Arg Ser Tyr  
 365 370 375  
 Cys Leu Tyr Val Leu Leu Leu Ala Ile Asn Gly Val Thr Glu Cys  
 380 385 390  
 Phe Thr Phe Ala Ala Met Ser Lys Glu Glu Val Asp Arg Tyr Ser  
 395 400 405  
 Ser Ala Val Ser Arg Ala Gly Gln Pro Asp Trp His Thr Leu Leu  
 410 415 420  
 Trp Gly Pro Ser Val Trp Glu Gln Leu Ser Gly Gln His Xaa Ser  
 425 430 435  
 Gln Arg Pro Ser

<210> 24

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2357636

<400> 24

Met Thr Ala Val Gly Val Gln Ala Gln Arg Pro Leu Gly Gln Arg  
 1 5 10 15  
 Gln Pro Arg Arg Ser Phe Phe Glu Ser Phe Ile Arg Thr Leu Ile  
 20 25 30  
 Ile Thr Cys Val Ala Leu Ala Val Val Leu Ser Ser Val Ser Ile  
 35 40 45  
 Cys Asp Gly His Trp Leu Leu Ala Glu Asp Arg Leu Phe Gly Leu  
 50 55 60  
 Trp His Phe Cys Thr Thr Thr Asn Gln Ser Val Pro Ile Cys Phe

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65 70 75  
 Arg Asp Leu Gly Gln Ala His Val Pro Gly Leu Ala Val Gly Met  
 80 85 90  
 Gly Leu Val Arg Ser Val Gly Ala Leu Ala Val Val Ala Ala Ile  
 95 100 105  
 Phe Gly Leu Glu Phe Leu Met Val Ser Gln Leu Cys Glu Asp Lys  
 110 115 120  
 His Ser Gln Cys Lys Trp Val Met Gly Ser Ile Leu Leu Leu Val  
 125 130 135  
 Ser Phe Val Leu Ser Ser Gly Gly Leu Leu Gly Phe Val Ile Leu  
 140 145 150  
 Leu Arg Asn Gln Val Thr Leu Ile Gly Phe Thr Leu Met Phe Trp  
 155 160 165  
 Cys Glu Phe Thr Ala Ser Phe Leu Leu Phe Leu Asn Ala Ile Ser  
 170 175 180  
 Gly Leu His Ile Asn Ser Ile Thr His Pro Trp Glu  
 185 190

<210> 25

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2365230

<400> 25

Met Lys Glu Val Thr Arg Thr Trp Lys Ile Val Gly Gly Val Thr  
 1 5 10 15  
 His Ala Asn Ser Tyr Tyr Lys Asn Gly Trp Ile Val Met Ile Ala  
 20 25 30  
 Ile Gly Trp Ala Arg Gly Ala Gly Gly Thr Ile Ile Thr Asn Phe  
 35 40 45  
 Glu Arg Leu Val Lys Gly Asp Trp Lys Pro Glu Gly Asp Glu Trp  
 50 55 60  
 Leu Lys Met Ser Tyr Pro Ala Lys Val Thr Leu Leu Gly Ser Val  
 65 70 75  
 Ile Phe Thr Phe Gln His Thr Gln His Leu Ala Ile Ser Lys His  
 80 85 90  
 Asn Leu Met Phe Leu Tyr Thr Ile Phe Ile Val Ala Thr Lys Ile  
 95 100 105  
 Thr Met Met Thr Thr Gln Thr Ser Thr Met Thr Phe Ala Pro Phe  
 110 115 120  
 Glu Asp Thr Leu Ser Trp Met Leu Phe Gly Trp Gln Gln Pro Phe  
 125 130 135  
 Ser Ser Cys Glu Lys Lys Ser Glu Ala Lys Ser Pro Ser Asn Gly  
 140 145 150  
 Val Gly Ser Leu Ala Ser Lys Pro Val Asp Val Ala Ser Asp Asn  
 155 160 165  
 Val Lys Lys Lys His Thr Lys Lys Asn Glu  
 170 175

<210> 26

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<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2455121

<400> 26

Met Tyr Pro Pro Pro Pro Pro Pro Pro His Arg Asp Phe Ile Ser  
1 5 10 15  
Val Thr Leu Ser Phe Gly Glu Ser Tyr Asp Asn Ser Lys Ser Trp  
20 25 30  
Arg Arg Arg Ser Cys Trp Arg Lys Trp Lys Gln Leu Ser Arg Leu  
35 40 45  
Gln Arg Asn Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys  
50 55 60  
Gly Leu Leu Phe Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu  
65 70 75  
Ala Phe Arg Leu Gly Glu Glu Gln Lys Met Arg Pro Glu Ile Ala  
80 85 90  
Gly

<210> 27

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2472514

<400> 27

Met Gln Pro Thr Ser Trp Ala Val Ser Cys Gly Leu Arg Pro Leu  
1 5 10 15  
Pro Ser Trp Lys Pro Gln Gly Gly Glu Gly Arg Gly Gly Glu Glu  
20 25 30  
Arg Arg Gly Thr Val Met Gly Pro Trp Ser Arg Val Arg Val Ala  
35 40 45  
Lys Cys Gln Met Leu Val Thr Cys Phe Phe Ile Leu Leu Leu Gly  
50 55 60  
Leu Ser Val Ala Thr Met Val Thr Leu Thr Tyr Phe Gly Ala His  
65 70 75  
Phe Ala Val Ile Arg Arg Ala Ser Leu Glu Lys Asn Pro Tyr Gln  
80 85 90  
Ala Val His Gln Trp Ala Phe Ser Ala Gly Leu Ser Leu Val Gly  
95 100 105  
Leu Leu Thr Leu Gly Ala Val Leu Ser Ala Ala Ala Thr Val Arg  
110 115 120  
Glu Ala Gln Gly Leu Met Ala Gly Gly Phe Leu Cys Phe Ser Leu  
125 130 135  
Ala Phe Cys Ala Gln Val Gln Val Val Phe Trp Arg Leu His Ser  
140 145 150

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Pro Thr Gln Val Glu Asp Ala Met Leu Asp Thr Tyr Asp Leu Val  
155 160 165  
Tyr Glu Gln Ala Met Lys Gly Thr Ser His Val Arg Arg Gln Glu  
170 175 180  
Leu Ala Ala Ile Gln Asp Val Val Ser Val Gly Thr Ala Gly Trp  
185 190 195  
Gln Gly Gly Gln Leu Leu Leu Gly Leu Gln Phe Arg Glu Gln Ala  
200 205 210  
Gln Gly Gly Gln

<210> 28

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2543486

<400> 28

Met Ser Val Ile Phe Phe Ala Cys Val Val Arg Val Arg Asp Gly  
1 5 10 15  
Leu Pro Leu Ser Ala Ser Thr Asp Phe Tyr His Thr Gln Asp Phe  
20 25 30  
Leu Glu Trp Arg Arg Arg Leu Lys Ser Leu Ala Leu Arg Leu Ala  
35 40 45  
Gln Tyr Pro Gly Arg Gly Ser Ala Glu Gly Cys Asp Phe Ser Ile  
50 55 60  
His Phe Ser Ser Phe Gly Asp Val Ala Cys Met Ala Ile Cys Ser  
65 70 75  
Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe Leu Glu Thr Leu  
80 85 90  
Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys Ile Gly Leu  
95 100 105  
Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile Ile Gln  
110 115 120  
Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met Glu  
125 130 135  
Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro  
140 145 150  
Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met  
155 160 165  
Asn Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg  
170 175 180  
Met Glu Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn  
185 190 195  
Ile Met Cys Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala  
200 205 210  
Glu His Ser Leu Gln Val Ala His Glu Glu Ile Gly Asn Ile Leu  
215 220 225  
Ala Phe Leu Val Pro Phe Val Ala Cys Ile Phe Gln Asp Pro Arg  
230 235 240  
Ser Trp Phe Cys Trp Leu Asp Gln Thr Ser

245

250

<210> 29  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2778171

a1  
 <400> 29  
 Met Ala Thr Gly Thr Asp Gln Val Val Gly Leu Gly Leu Val Ala  
 1 5 10 15  
 Val Ser Leu Ile Ile Phe Thr Tyr Tyr Thr Ala Trp Val Ile Leu  
 20 25 30  
 Leu Pro Phe Ile Asp Ser Gln His Val Ile His Lys Tyr Phe Leu  
 35 40 45  
 Pro Arg Ala Tyr Ala Val Ala Ile Pro Leu Ala Ala Gly Leu Leu  
 50 55 60  
 Leu Leu Leu Phe Val Gly Leu Phe Ile Ser Tyr Val Met Leu Lys  
 65 70 75  
 Ser Lys Arg Val Thr Lys Lys Ala Gln  
 30

<210> 30  
 <211> 277  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2799575

<400> 30  
 Met Ala Ser Ala Glu Leu Asp Tyr Thr Ile Glu Ile Pro Asp Gln  
 1 5 10 15  
 Pro Cys Trp Ser Gln Lys Asn Ser Pro Ser Pro Gly Gly Lys Glu  
 20 25 30  
 Ala Glu Thr Arg Gln Pro Val Val Ile Leu Leu Gly Trp Gly Gly  
 35 40 45  
 Cys Lys Asp Lys Asn Leu Ala Lys Tyr Ser Ala Ile Tyr His Lys  
 50 55 60  
 Arg Gly Cys Ile Val Ile Arg Tyr Thr Ala Pro Trp His Met Val  
 65 70 75  
 Phe Phe Ser Glu Ser Leu Gly Ile Pro Ser Leu Arg Val Leu Ala  
 80 85 90  
 Gln Lys Leu Leu Glu Leu Leu Phe Asp Tyr Glu Ile Glu Lys Glu  
 95 100 105  
 Pro Leu Leu Phe His Val Phe Ser Asn Gly Gly Val Met Leu Tyr  
 110 115 120  
 Arg Tyr Val Leu Glu Leu Leu Gln Thr Arg Arg Phe Cys Arg Leu  
 125 130 135  
 Arg Val Val Gly Thr Ile Phe Asp Ser Ala Pro Gly Asp Ser Asn



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140 145 150  
Leu Val Gly Ala Leu Arg Ala Leu Ala Ala Ile Leu Glu Arg Arg  
155 160 165  
Ala Ala Met Leu Arg Leu Leu Leu Leu Val Ala Phe Ala Leu Val  
170 175 180  
Val Val Leu Phe His Val Leu Leu Ala Pro Ile Thr Ala Leu Phe  
185 190 195  
His Thr His Phe Tyr Asp Arg Leu Gln Asp Ala Gly Ser Arg Trp  
200 205 210  
Pro Glu Leu Tyr Leu Tyr Ser Arg Ala Asp Glu Val Val Leu Ala  
215 220 225  
Arg Asp Ile Glu Arg Met Val Glu Ala Arg Leu Ala Arg Arg Val  
230 235 240  
Leu Ala Arg Ser Val Asp Phe Val Ser Ser Ala His Val Ser His  
245 250 255  
Leu Arg Asp Tyr Pro Thr Tyr Tyr Thr Ser Leu Cys Val Asp Phe  
260 265 270  
Met Arg Asn Cys Val Arg Cys  
275

<210> 31

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2804955

<400> 31

Met Ser Gly Ser Gln Ser Glu Val Ala Pro Ser Pro Gln Ser Pro  
1 5 10 15  
Arg Ser Pro Glu Met Gly Arg Asp Leu Arg Pro Gly Ser Arg Val  
20 25 30  
Leu Leu Leu Leu Leu Leu Leu Leu Val Tyr Leu Thr Gln Pro  
35 40 45  
Gly Asn Gly Asn Glu Gly Ser Val Thr Gly Ser Cys Tyr Cys Gly  
50 55 60  
Lys Arg Ile Ser Ser Asp Ser Pro Pro Ser Val Gln Phe Met Asn  
65 70 75  
Arg Leu Arg Lys His Leu Arg Ala Tyr His Arg Cys Leu Tyr Tyr  
80 85 90  
Thr Arg Phe Gln Leu Leu Ser Trp Ser Val Cys Gly Gly Asn Lys  
95 100 105  
Asp Pro Trp Val Gln Glu Leu Met Ser Cys Leu Asp Leu Lys Glu  
110 115 120  
Cys Gly His Ala Tyr Ser Gly Ile Val Ala His Gln Lys His Leu  
125 130 135  
Leu Pro Thr Ser Pro Pro Ile Ser Gln Ala Ser Glu Gly Ala Ser  
140 145 150  
Ser Asp Ile His Thr Pro Ala Gln Met Leu Leu Ser Thr Leu Gln  
155 160 165  
Ser Thr Gln Arg Pro Thr Leu Pro Val Gly Ser Leu Ser Ser Asp  
170 175 180

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Lys	Glu	Leu	Thr	Arg	Pro	Asn	Glu	Thr	Thr	Ile	His	Thr	Ala	Gly	
				185					190					195	
His	Ser	Leu	Ala	Ala	Gly	Pro	Glu	Ala	Gly	Glu	Asn	Gln	Lys	Gln	
				200					205					210	
Pro	Glu	Lys	Asn	Ala	Gly	Pro	Thr	Ala	Arg	Thr	Ser	Ala	Thr	Val	
				215					220					225	
Pro	Val	Leu	Cys	Leu	Leu	Ala	Ile	Ile	Phe	Ile	Leu	Thr	Ala	Ala	
				230					235					240	
Leu	Ser	Tyr	Val	Leu	Cys	Lys	Arg	Arg	Arg	Gly	Gln	Ser	Pro	Gln	
				245					250					255	
Ser	Ser	Pro	Asp	Leu	Pro	Val	His	Tyr	Ile	Pro	Val	Ala	Pro	Asp	
				260					265					270	
Ser	Asn	Thr													

Al  
<210> 32  
<211> 524  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2806395

<400> 32

Met	Ser	Gln	Gly	Ser	Pro	Gly	Asp	Trp	Ala	Pro	Leu	Asp	Pro	Thr	
1				5					10					15	
Pro	Gly	Pro	Pro	Ala	Ser	Pro	Asn	Pro	Phe	Val	His	Glu	Leu	His	
				20					25					30	
Leu	Ser	Arg	Leu	Gln	Arg	Val	Lys	Phe	Cys	Leu	Leu	Gly	Ala	Leu	
				35					40					45	
Leu	Ala	Pro	Ile	Arg	Val	Leu	Leu	Ala	Phe	Ile	Val	Leu	Phe	Leu	
				50					55					60	
Leu	Trp	Pro	Phe	Ala	Trp	Leu	Gln	Val	Ala	Gly	Leu	Ser	Glu	Glu	
				65					70					75	
Gln	Leu	Gln	Glu	Pro	Ile	Thr	Gly	Trp	Arg	Lys	Thr	Val	Cys	His	
				80					85					90	
Asn	Gly	Val	Leu	Gly	Leu	Ser	Arg	Leu	Leu	Phe	Phe	Leu	Leu	Gly	
				95					100					105	
Phe	Leu	Arg	Ile	Arg	Val	Arg	Gly	Gln	Arg	Ala	Ser	Arg	Leu	Gln	
				110					115					120	
Ala	Pro	Val	Leu	Val	Ala	Ala	Pro	His	Ser	Thr	Phe	Phe	Asp	Pro	
				125					130					135	
Ile	Val	Leu	Leu	Pro	Cys	Asp	Leu	Pro	Lys	Val	Val	Ser	Arg	Ala	
				140					145					150	
Glu	Asn	Leu	Ser	Val	Pro	Val	Ile	Gly	Ala	Leu	Leu	Arg	Phe	Asn	
				155					160					165	
Gln	Ala	Ile	Leu	Val	Ser	Arg	His	Asp	Pro	Ala	Ser	Arg	Arg	Arg	
				170					175					180	
Val	Val	Glu	Glu	Val	Arg	Arg	Arg	Ala	Thr	Ser	Gly	Gly	Lys	Trp	
				185					190					195	
Pro	Gln	Val	Leu	Phe	Phe	Pro	Glu	Gly	Thr	Cys	Ser	Asn	Lys	Lys	
				200					205					210	
Ala	Leu	Leu	Lys	Phe	Lys	Pro	Gly	Ala	Phe	Ile	Ala	Gly	Val	Pro	

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215 220 225  
Val Gln Pro Val Leu Ile Arg Tyr Pro Asn Ser Leu Asp Thr Thr  
230 235 240  
Ser Trp Ala Trp Arg Gly Pro Gly Val Leu Lys Val Leu Trp Leu  
245 250 255  
Thr Ala Ser Gln Pro Cys Ser Ile Val Asp Val Glu Phe Leu Pro  
260 265 270  
Val Tyr His Pro Ser Pro Glu Glu Ser Arg Asp Pro Thr Leu Tyr  
275 280 285  
Ala Asn Asn Val Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro  
290 295 300  
Ala Thr Glu Cys Glu Phe Val Gly Ser Leu Pro Val Ile Val Val  
305 310 315  
Gly Arg Leu Lys Val Ala Leu Glu Pro Gln Leu Trp Glu Leu Gly  
320 325 330  
Lys Val Leu Arg Lys Ala Gly Leu Ser Ala Gly Tyr Val Asp Ala  
335 340 345  
Gly Ala Glu Pro Gly Arg Ser Arg Met Ile Ser Gln Glu Glu Phe  
350 355 360  
Ala Arg Gln Leu Gln Leu Ser Asp Pro Gln Thr Val Ala Gly Ala  
365 370 375  
Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly Leu Val Asp Phe Arg  
380 385 390  
Asp Val Ala Leu Ala Leu Ala Ala Leu Asp Gly Gly Arg Ser Leu  
395 400 405  
Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala Glu Glu Gln  
410 415 420  
Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe Ser Thr  
425 430 435  
Ile Leu His Leu Leu Leu Gly Ser Pro His Pro Ala Ala Thr Ala  
440 445 450  
Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser  
455 460 465  
Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly  
470 475 480  
Lys Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly  
485 490 495  
Thr Ser Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala  
500 505 510  
Leu Ala Asn Gly Thr Val Gln Ala Pro Lys Gln Lys Gly Asp  
515 520

<210> 33

<211> 257

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2836858

<400> 33

Met Asp Phe Ser Arg Leu His Met Tyr Ser Pro Pro Gln Cys Val  
1 5 10 15

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Pro Glu Asn Thr Gly Tyr Thr Tyr Ala Leu Ser Ser Ser Tyr Ser  
 20 25 30  
 Ser Asp Ala Leu Asp Phe Glu Thr Glu His Lys Leu Asp Pro Val  
 35 40 45  
 Phe Asp Ser Pro Arg Met Ser Arg Arg Ser Leu Arg Leu Ala Thr  
 50 55 60  
 Thr Ala Cys Thr Leu Gly Asp Gly Glu Ala Val Gly Ala Asp Ser  
 65 70 75  
 Gly Thr Ser Ser Ala Val Ser Leu Lys Asn Arg Ala Ala Arg Thr  
 80 85 90  
 Thr Lys Gln Arg Arg Ser Thr Asn Lys Ser Ala Phe Ser Ile Asn  
 95 100 105  
 His Val Ser Arg Gln Val Thr Ser Ser Gly Val Ser His Gly Gly  
 110 115 120  
 Thr Val Ser Leu Gln Asp Ala Val Thr Arg Arg Pro Pro Val Leu  
 125 130 135  
 Asp Glu Ser Trp Ile Arg Glu Gln Thr Thr Val Asp His Phe Trp  
 140 145 150  
 Gly Leu Asp Asp Asp Gly Asp Leu Lys Gly Gly Asn Lys Ala Ala  
 155 160 165  
 Ile Gln Gly Asn Gly Asp Val Gly Ala Ala Ala Thr Ala His  
 170 175 180  
 Asn Gly Phe Ser Cys Ser Asn Cys Ser Met Leu Ser Glu Arg Lys  
 185 190 195  
 Asp Val Leu Thr Ala His Pro Ala Ala Pro Gly Pro Val Ser Arg  
 200 205 210  
 Val Tyr Ser Arg Asp Arg Asn Gln Lys Cys Lys Ser Gln Ser Phe  
 215 220 225  
 Lys Thr Gln Lys Lys Val Cys Phe Pro Asn Leu Ile Phe Pro Phe  
 230 235 240  
 Cys Lys Ser Gln Cys Leu His Tyr Leu Ser Trp Arg Leu Lys Ile  
 245 250 255  
 Ile Pro

<210> 34

<211> 274

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2844513

<400> 34

Met Arg Ala Ala Gly Val Gly Leu Val Asp Cys His Cys His Leu  
 1 5 10 15  
 Ser Ala Pro Asp Phe Asp Arg Asp Leu Asp Asp Val Leu Glu Lys  
 20 25 30  
 Ala Lys Lys Ala Asn Val Val Ala Leu Val Ala Val Ala Glu His  
 35 40 45  
 Ser Gly Glu Phe Glu Lys Ile Met Gln Leu Ser Glu Arg Tyr Asn  
 50 55 60  
 Gly Phe Val Leu Pro Cys Leu Gly Val His Pro Val Gln Gly Leu

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65 70 75  
 Pro Pro Glu Asp Gln Arg Ser Val Thr Leu Lys Asp Leu Asp Val  
 80 85 90  
 Ala Leu Pro Ile Ile Glu Asn Tyr Lys Asp Arg Leu Leu Ala Ile  
 95 100 105  
 Gly Glu Val Gly Leu Asp Phe Ser Pro Arg Phe Ala Gly Thr Gly  
 110 115 120  
 Glu Gln Lys Glu Glu Gln Arg Gln Val Leu Ile Arg Gln Ile Gln  
 125 130 135  
 Leu Ala Lys Arg Leu Asn Leu Pro Val Asn Val His Ser Arg Ser  
 140 145 150  
 Ala Gly Arg Pro Thr Ile Asn Leu Leu Gln Glu Gln Gly Ala Glu  
 155 160 165  
 Lys Val Leu Leu His Ala Phe Asp Gly Arg Pro Ser Val Ala Met  
 170 175 180  
 Glu Gly Val Arg Ala Gly Tyr Phe Phe Ser Ile Pro Pro Ser Ile  
 185 190 195  
 Ile Arg Ser Gly Gln Lys Gln Lys Leu Val Lys Gln Leu Pro Leu  
 200 205 210  
 Thr Ser Ile Cys Leu Glu Thr Asp Ser Pro Ala Leu Gly Pro Glu  
 215 220 225  
 Lys Gln Val Arg Asn Glu Pro Trp Asn Ile Ser Ile Ser Ala Glu  
 230 235 240  
 Tyr Ile Ala Gln Val Lys Gly Ile Ser Val Glu Glu Val Ile Glu  
 245 250 255  
 Val Thr Thr Gln Asn Ala Leu Lys Leu Phe Pro Lys Leu Arg His  
 260 265 270  
 Leu Leu Gln Lys

<210> 35  
 <211> 281  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3000380

<400> 35  
 Met Ser Glu Pro Gln Pro Asp Leu Glu Pro Pro Gln His Gly Leu  
 1 5 10 15  
 Tyr Met Leu Phe Leu Leu Val Leu Val Phe Phe Leu Met Gly Leu  
 20 25 30  
 Val Gly Phe Met Ile Cys His Val Leu Lys Lys Lys Gly Tyr Arg  
 35 40 45  
 Cys Arg Thr Ser Arg Gly Ser Glu Pro Asp Asp Ala Gln Leu Gln  
 50 55 60  
 Pro Pro Glu Asp Asp Asp Met Asn Glu Asp Thr Val Glu Arg Ile  
 65 70 75  
 Val Arg Cys Ile Ile Gln Asn Glu Val Trp Met Pro Pro Pro Ala  
 80 85 90  
 Cys Arg Thr Glu Pro Pro Pro Ile Ile Thr Gln Cys Thr Trp Ala  
 95 100 105

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Leu Gln Pro Leu Ala Val His Cys Ser Arg Ser Lys Arg Pro Pro  
110 115 120  
Leu Val Arg Gln Gly Arg Ser Lys Glu Gly Lys Ser Arg Pro Arg  
125 130 135  
Thr Gly Glu Thr Thr Val Phe Ser Val Gly Arg Phe Arg Val Thr  
140 145 150  
His Ile Glu Lys Arg Tyr Gly Leu His Glu His Arg Asp Gly Ser  
155 160 165  
Pro Thr Asp Arg Ser Trp Gly Ser Arg Gly Gly Gln Asp Pro Gly  
170 175 180  
Gly Gly Gln Gly Ser Gly Gly Gly His Pro Lys Ala Gly Met Leu  
185 190 195  
Pro Trp Arg Gly Cys Pro Pro Glu Arg Pro Gln Pro Gln Val Leu  
200 205 210  
Ala Ser Pro Pro Val Gln Asn Gly Gly Leu Arg Asp Ser Ser Leu  
215 220 225  
Thr Pro Arg Ala Leu Glu Gly Asn Pro Arg Ala Ser Ala Glu Pro  
230 235 240  
Thr Leu Arg Ala Gly Gly Arg Gly Pro Ser Pro Gly Leu Pro Thr  
245 250 255  
Gln Glu Ala Asn Gly Gln Pro Ser Lys Pro Asp Thr Ser Asp His  
260 265 270  
Gln Val Ser Leu Pro Gln Gly Ala Gly Ser Met  
275 280

<210> 36

<211> 335

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 182532

<400> 36

Met Gly Pro Leu Ser Ala Pro Pro Cys Thr His Leu Ile Thr Trp  
1 5 10 15  
Lys Gly Val Leu Leu Thr Ala Ser Leu Leu Asn Phe Trp Asn Pro  
20 25 30  
Pro Thr Thr Ala Gln Val Thr Ile Glu Ala Gln Pro Pro Lys Val  
35 40 45  
Ser Glu Gly Lys Asp Val Leu Leu Leu Val His Asn Leu Pro Gln  
50 55 60  
Asn Leu Ala Gly Tyr Ile Trp Tyr Lys Gly Gln Met Thr Tyr Val  
65 70 75  
Tyr His Tyr Ile Ile Ser Tyr Ile Val Asp Gly Lys Ile Ile Ile  
80 85 90  
Tyr Gly Pro Ala Tyr Ser Gly Arg Glu Arg Val Tyr Ser Asn Ala  
95 100 105  
Ser Leu Leu Ile Gln Asn Val Thr Gln Glu Asp Ala Gly Ser Tyr  
110 115 120  
Thr Leu His Ile Ile Lys Arg Gly Asp Gly Thr Arg Gly Glu Thr  
125 130 135  
Gly His Phe Thr Phe Thr Leu Tyr Leu Glu Thr Pro Lys Pro Ser

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140 145 150  
Ile Ser Ser Ser Asn Leu Tyr Pro Arg Glu Asp Met Glu Ala Val  
155 160 165  
Ser Leu Thr Cys Asp Pro Glu Thr Pro Asp Ala Ser Tyr Leu Trp  
170 175 180  
Trp Met Asn Gly Gln Ser Leu Pro Met Thr His Ser Leu Gln Leu  
185 190 195  
Ser Lys Asn Lys Arg Thr Leu Phe Leu Phe Gly Val Thr Lys Tyr  
200 205 210  
Thr Ala Gly Pro Tyr Glu Cys Glu Ile Arg Asn Pro Val Ser Gly  
215 220 225  
Ile Arg Ser Asp Pro Val Thr Leu Asn Val Leu Tyr Gly Pro Asp  
230 235 240  
Leu Pro Ser Ile Tyr Pro Ser Phe Thr Tyr Tyr Arg Ser Gly Glu  
245 250 255  
Asn Leu Tyr Leu Ser Cys Phe Ala Glu Ser Asn Pro Arg Ala Gln  
260 265 270  
Tyr Ser Trp Thr Ile Asn Gly Lys Phe Gln Leu Ser Gly Gln Lys  
275 280 285  
Leu Phe Ile Pro Gln Ile Thr Thr Lys His Ser Gly Leu Tyr Ala  
290 295 300  
Cys Ser Val Arg Asn Ser Ala Thr Gly Met Glu Ser Ser Lys Ser  
305 310 315  
Met Thr Val Lys Val Ser Ala Pro Ser Gly Thr Gly His Leu Pro  
320 325 330  
Gly Leu Asn Pro Leu  
335

<210> 37  
<211> 280  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 239589

<400> 37  
Met Asp Leu Gln Gly Arg Gly Val Pro Ser Ile Asp Arg Leu Arg  
1 5 10 15  
Val Leu Leu Met Leu Phe His Thr Met Ala Gln Ile Met Ala Glu  
20 25 30  
Gln Glu Val Glu Asn Leu Ser Gly Leu Ser Thr Asn Pro Glu Lys  
35 40 45  
Asp Ile Phe Val Val Arg Glu Asn Gly Thr Thr Cys Leu Met Ala  
50 55 60  
Glu Phe Ala Ala Lys Phe Ile Val Pro Tyr Asp Val Trp Ala Ser  
65 70 75  
Asn Tyr Val Asp Leu Ile Thr Glu Gln Ala Asp Ile Ala Leu Thr  
80 85 90  
Arg Gly Ala Glu Val Lys Gly Arg Cys Gly His Ser Gln Ser Glu  
95 100 105  
Leu Gln Val Phe Trp Val Asp Arg Ala Tyr Ala Leu Lys Met Leu  
110 115 120

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Q1

Phe	Val	Lys	Glu	Ser	His	Asn	Met	Ser	Lys	Gly	Pro	Glu	Ala	Thr
				125					130					135
Trp	Arg	Leu	Ser	Lys	Val	Gln	Phe	Val	Tyr	Asp	Ser	Ser	Glu	Lys
				140					145					150
Thr	His	Phe	Lys	Asp	Ala	Val	Ser	Ala	Gly	Lys	His	Thr	Ala	Asn
				155					160					165
Ser	His	His	Leu	Ser	Ala	Leu	Val	Thr	Pro	Ala	Gly	Lys	Ser	Tyr
				170					175					180
Glu	Cys	Gln	Ala	Gln	Gln	Thr	Ile	Ser	Leu	Ala	Ser	Ser	Asp	Pro
				185					190					195
Gln	Lys	Thr	Val	Thr	Met	Ile	Leu	Ser	Ala	Val	His	Ile	Gln	Pro
				200					205					210
Phe	Asp	Ile	Ile	Ser	Asp	Phe	Val	Phe	Ser	Glu	Glu	His	Lys	Cys
				215					220					225
Pro	Val	Asp	Glu	Arg	Glu	Gln	Leu	Glu	Glu	Thr	Leu	Pro	Leu	Ile
				230					235					240
Leu	Gly	Leu	Ile	Leu	Gly	Leu	Val	Ile	Met	Val	Thr	Leu	Ala	Ile
				245					250					255
Tyr	His	Val	His	His	Lys	Met	Thr	Ala	Asn	Gln	Val	Gln	Ile	Pro
				260					265					270
Arg	Asp	Arg	Ser	Gln	Tyr	Lys	His	Met	Gly					
				275					280					

<210> 38

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1671302

<400> 38

Met	Ser	Arg	Met	Phe	Cys	Gln	Ala	Ala	Arg	Val	Asp	Leu	Thr	Leu
1				5					10					15
Asp	Pro	Asp	Thr	Ala	His	Pro	Ala	Leu	Met	Leu	Ser	Pro	Asp	Arg
				20					25					30
Arg	Gly	Val	Arg	Leu	Ala	Glu	Arg	Arg	Gln	Glu	Val	Ala	Asp	His
				35					40					45
Pro	Lys	Arg	Phe	Ser	Ala	Asp	Cys	Cys	Val	Leu	Gly	Ala	Gln	Gly
				50					55					60
Phe	Arg	Ser	Gly	Arg	His	Tyr	Trp	Glu	Val	Glu	Val	Gly	Gly	Arg
				65					70					75
Arg	Gly	Trp	Ala	Val	Gly	Ala	Ala	Arg	Glu	Ser	Thr	His	His	Lys
				80					85					90
Glu	Lys	Val	Gly	Pro	Gly	Gly	Ser	Ser	Val	Gly	Ser	Gly	Asp	Ala
				95					100					105
Ser	Ser	Ser	Arg	His	His	His	Arg	Arg	Arg	Arg	Leu	His	Leu	Pro
				110					115					120
Gln	Gln	Pro	Leu	Leu	Gln	Arg	Glu	Val	Trp	Cys	Val	Gly	Thr	Asn
				125					130					135
Gly	Lys	Arg	Tyr	Gln	Ala	Gln	Ser	Ser	Thr	Glu	Gln	Thr	Leu	Leu
				140					145					150
Ser	Pro	Ser	Glu	Lys	Pro	Arg	Arg	Phe	Gly	Val	Tyr	Leu	Asp	Tyr



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	155		160		165
Glu Ala Gly Arg	Leu Gly Phe Tyr Asn	Ala Glu Thr Leu Ala	His		
	170		175		180
Val His Thr Phe	Ser Ala Ala Phe Leu	Gly Glu Arg Val Phe	Pro		
	185		190		195
Phe Phe Arg Val	Leu Ser Lys Gly Thr	Arg Ile Lys Leu Cys	Pro		
	200		205		210

<210> 39

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2041858

<400> 39

Met Glu Ala Val	Val Asn Leu Tyr Gln	Glu Val Met Lys His	Ala
1	5	10	15
Asp Pro Arg Ile	Gln Gly Tyr Pro Leu	Met Gly Ser Pro Leu	Leu
	20	25	30
Met Thr Ser Ile	Leu Leu Thr Tyr Val	Tyr Phe Val Leu Ser	Leu
	35	40	45
Gly Pro Arg Ile	Met Ala Asn Arg Lys	Pro Phe Gln Leu Arg	Gly
	50	55	60
Phe Met Ile Val	Tyr Asn Phe Ser Leu	Val Ala Leu Ser Leu	Tyr
	65	70	75
Ile Val Tyr Glu	Phe Leu Met Ser Gly	Trp Leu Ser Thr Tyr	Thr
	80	85	90
Trp Arg Cys Asp	Pro Val Asp Tyr Ser	Asn Ser Pro Glu Ala	Leu
	95	100	105
Arg Met Val Arg	Val Ala Trp Leu Phe	Leu Phe Ser Lys Phe	Ile
	110	115	120
Glu Leu Met Asp	Thr Val Ile Phe Ile	Leu Arg Lys Lys Asp	Gly
	125	130	135
Gln Val Thr Phe	Leu His Val Phe His	His Ser Val Leu Pro	Trp
	140	145	150
Ser Trp Trp Trp	Gly Val Lys Ile Ala	Pro Gly Gly Met Gly	Ser
	155	160	165
Phe His Ala Met	Ile Asn Ser Ser Val	His Val Ile Met Tyr	Leu
	170	175	180
Tyr Tyr Gly Leu	Ser Ala Phe Gly Pro	Val Ala Gln Pro Tyr	Leu
	185	190	195
Trp Trp Lys Lys	His Met Thr Ala Ile	Gln Leu Ile Gln Phe	Val
	200	205	210
Leu Val Ser Leu	His Ile Ser Gln Tyr	Tyr Phe Met Ser Ser	Cys
	215	220	225
Asn Tyr Gln Tyr	Pro Val Ile Ile His	Leu Ile Trp Met Tyr	Gly
	230	235	240
Thr Ile Phe Phe	Met Leu Phe Ser Asn	Phe Trp Tyr His Ser	Tyr
	245	250	255
Thr Lys Gly Lys	Arg Leu Pro Arg Ala	Leu Gln Gln Asn Gly	Ala

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260 265 270  
Pro Gly Ile Ala Lys Val Lys Ala Asn  
275

<210> 40  
<211> 154  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 2198863

Q1  
<400> 40  
Met Gly Lys Ser Ala Ser Lys Gln Phe His Asn Glu Val Leu Lys  
1 5 10 15  
Ala His Asn Glu Tyr Arg Gln Lys His Gly Val Pro Pro Leu Lys  
20 25 30  
Leu Cys Lys Asn Leu Asn Arg Glu Ala Gln Gln Tyr Ser Glu Ala  
35 40 45  
Leu Ala Ser Thr Arg Ile Leu Lys His Ser Pro Glu Ser Ser Arg  
50 55 60  
Gly Gln Cys Gly Glu Asn Leu Ala Trp Ala Ser Tyr Asp Gln Thr  
65 70 75  
Gly Lys Glu Val Ala Asp Arg Trp Tyr Ser Glu Ile Lys Asn Tyr  
80 85 90  
Asn Phe Gln Gln Pro Gly Phe Thr Ser Gly Thr Gly His Phe Thr  
95 100 105  
Ala Met Val Trp Lys Asn Thr Lys Lys Met Gly Val Gly Lys Ala  
110 115 120  
Ser Ala Ser Asp Gly Ser Ser Phe Val Val Ala Arg Tyr Phe Pro  
125 130 135  
Ala Gly Asn Val Val Asn Glu Gly Phe Phe Glu Glu Asn Val Leu  
140 145 150  
Pro Pro Lys Lys

<210> 41  
<211> 582  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 3250703

<400> 41  
Met Lys Pro Asn Ile Ile Phe Val Leu Ser Leu Leu Leu Ile Leu  
1 5 10 15  
Glu Lys Gln Ala Ala Val Met Gly Gln Lys Gly Gly Ser Lys Gly  
20 25 30  
Arg Leu Pro Ser Glu Phe Ser Gln Phe Pro His Gly Gln Lys Gly  
35 40 45  
Gln His Tyr Ser Gly Gln Lys Gly Lys Gln Gln Thr Glu Ser Lys

50 55 60  
 Gly Ser Phe Ser Ile Gln Tyr Thr Tyr His Val Asp Ala Asn Asp  
 65 70 75  
 His Asp Gln Ser Arg Lys Ser Gln Gln Tyr Asp Leu Asn Ala Leu  
 80 85 90  
 His Lys Thr Thr Lys Ser Gln Arg His Leu Gly Gly Ser Gln Gln  
 95 100 105  
 Leu Leu His Asn Lys Gln Glu Gly Arg Asp His Asp Lys Ser Lys  
 110 115 120  
 Gly His Phe His Arg Val Val Ile His His Lys Gly Gly Lys Ala  
 125 130 135  
 His Arg Gly Thr Gln Asn Pro Ser Gln Asp Gln Gly Asn Ser Pro  
 140 145 150  
 Ser Gly Lys Gly Ile Ser Ser Gln Tyr Ser Asn Thr Glu Glu Arg  
 155 160 165  
 Leu Trp Val His Gly Leu Ser Lys Glu Gln Thr Ser Val Ser Gly  
 170 175 180  
 Ala Gln Lys Gly Arg Lys Gln Gly Gly Ser Gln Ser Ser Tyr Val  
 185 190 195  
 Leu Gln Thr Glu Glu Leu Val Ala Asn Lys Gln Gln Arg Glu Thr  
 200 205 210  
 Lys Asn Ser His Gln Asn Lys Gly His Tyr Gln Asn Val Val Glu  
 215 220 225  
 Val Arg Glu Glu His Ser Ser Lys Val Gln Thr Ser Leu Cys Pro  
 230 235 240  
 Ala His Gln Asp Lys Leu Gln His Gly Ser Lys Asp Ile Phe Ser  
 245 250 255  
 Thr Gln Asp Glu Leu Leu Val Tyr Asn Lys Asn Gln His Gln Thr  
 260 265 270  
 Lys Asn Leu Asn Gln Asp Gln Gln His Gly Arg Lys Ala Asn Lys  
 275 280 285  
 Ile Ser Tyr Gln Ser Ser Ser Thr Glu Glu Arg Arg Leu His Tyr  
 290 295 300  
 Gly Glu Asn Gly Val Gln Lys Asp Val Ser Gln Ser Ser Ile Tyr  
 305 310 315  
 Ser Gln Thr Glu Glu Lys Ile His Gly Lys Ser Gln Asn Gln Val  
 320 325 330  
 Thr Ile His Ser Gln Asp Gln Glu His Gly His Lys Glu Asn Lys  
 335 340 345  
 Ile Ser Tyr Gln Ser Ser Ser Thr Glu Glu Arg His Leu Asn Cys  
 350 355 360  
 Gly Glu Lys Gly Ile Gln Lys Gly Val Ser Lys Gly Ser Ile Ser  
 365 370 375  
 Ile Gln Thr Glu Glu Gln Ile His Gly Lys Ser Gln Asn Gln Val  
 380 385 390  
 Arg Ile Pro Ser Gln Ala Gln Glu Tyr Gly His Lys Glu Asn Lys  
 395 400 405  
 Ile Ser Tyr Gln Ser Ser Ser Thr Glu Glu Arg Arg Leu Asn Ser  
 410 415 420  
 Gly Glu Lys Asp Val Gln Lys Gly Val Ser Lys Gly Ser Ile Ser  
 425 430 435  
 Ile Gln Thr Glu Glu Lys Ile His Gly Lys Ser Gln Asn Gln Val  
 440 445 450  
 Thr Ile Pro Ser Gln Asp Gln Glu His Gly His Lys Glu Asn Lys



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	35		40		45
Ile Asp Val Ile His Val Ser Val Tyr Trp Phe Phe Glu Ala Leu					
	50		55		60
Ser Thr Phe Gln Ile Phe Tyr Tyr Cys Ile Thr Arg Thr Ile Thr					
	65		70		75
Val Arg Lys Gly Ile Val Val Ser Arg His Val Asn Glu Ala Gly					
	80		85		90
Val Ser Phe Val Ser Tyr Leu Cys Ile Asn Phe Lys					
	95		100		

<210> 44

<211> 226

<212> PRT

<213> Homo sapiens

Q1  
<220>

<221> misc\_feature

<223> Incyte ID No: 1625863

<400> 44

Met Pro Thr Thr Lys Lys Thr Leu Met Phe Leu Ser Ser Phe Phe					
1	5		10		15
Thr Ser Leu Gly Ser Phe Ile Val Ile Cys Ser Ile Leu Gly Thr					
	20		25		30
Gln Ala Trp Ile Thr Ser Thr Ile Ala Val Arg Asp Ser Ala Ser					
	35		40		45
Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg Gly Glu Ser					
	50		55		60
Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys Lys Phe					
	65		70		75
Ala Val Leu Glu Ile Leu Asn Asn Ser Ser Gln Lys Thr Leu His					
	80		85		90
Ser Val Thr Ile Leu Phe Leu Val Leu Ser Leu Ile Thr Ser Leu					
	95		100		105
Leu Ser Ser Gly Phe Thr Phe Tyr Asn Ser Ile Ser Asn Pro Tyr					
	110		115		120
Gln Thr Phe Leu Gly Pro Thr Gly Val Tyr Thr Trp Asn Gly Leu					
	125		130		135
Gly Ala Ser Phe Val Phe Val Thr Met Ile Leu Phe Val Ala Asn					
	140		145		150
Thr Gln Ser Asn Gln Leu Ser Glu Glu Leu Phe Gln Met Leu Tyr					
	155		160		165
Pro Ala Thr Thr Ser Lys Gly Thr Thr His Ser Tyr Gly Tyr Ser					
	170		175		180
Phe Trp Leu Ile Leu Leu Val Ile Leu Leu Asn Ile Val Thr Val					
	185		190		195
Thr Ile Ile Ile Phe Tyr Gln Lys Ala Arg Tyr Gln Arg Lys Gln					
	200		205		210
Glu Gln Arg Lys Pro Met Glu Tyr Ala Pro Arg Asp Gly Ile Leu					
	215		220		225
Phe					

<210> 45

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<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1638353

<400> 45

Met Ala Leu Leu Leu Ser Val Leu Arg Val Leu Leu Gly Gly Phe  
1 5 10 15  
Phe Ala Leu Val Gly Leu Ala Lys Leu Ser Glu Glu Ile Ser Ala  
20 25 30  
Pro Val Ser Glu Arg Met Asn Ala Leu Phe Val Gln Phe Ala Glu  
35 40 45  
Val Phe Pro Leu Lys Val Phe Gly Tyr Gln Pro Asp Pro Leu Asn  
50 55 60  
Tyr Gln Ile Ala Val Gly Phe Leu Glu Leu Leu Ala Gly Leu Leu  
65 70 75  
Leu Val Met Gly Pro Pro Met Leu Gln Glu Ile Ser Asn Leu Phe  
80 85 90  
Leu Ile Leu Leu Met Met Gly Ala Ile Phe Thr Leu Ala Ala Leu  
95 100 105  
Lys Glu Ser Leu Ser Thr Cys Ile Pro Ala Ile Val Cys Leu Gly  
110 115 120  
Phe Leu Leu Leu Leu Asn Val Gly Gln Leu Leu Ala Gln Thr Lys  
125 130 135  
Lys Val Val Arg Pro Thr Arg Lys Lys Thr Leu Ser Thr Phe Lys  
140 145 150  
Glu Ser Trp Lys

<210> 46

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1726843

<400> 46

Met Ala Ser Pro Arg Thr Val Thr Ile Val Ala Leu Ser Val Ala  
1 5 10 15  
Leu Gly Leu Phe Phe Val Phe Met Gly Thr Ile Lys Leu Thr Pro  
20 25 30  
Arg Leu Ser Lys Asp Ala Tyr Ser Glu Met Lys Arg Ala Tyr Lys  
35 40 45  
Ser Tyr Val Arg Ala Leu Pro Leu Leu Lys Lys Met Gly Ile Asn  
50 55 60  
Ser Ile Leu Leu Arg Lys Ser Ile Gly Ala Leu Glu Val Ala Cys  
65 70 75  
Gly Ile Val Met Thr Leu Val Pro Gly Arg Pro Lys Asp Val Ala  
80 85 90

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Asn Phe Phe Leu Leu Leu Val Leu Ala Val Leu Phe Phe His  
95 100 105  
Gln Leu Val Gly Asp Pro Leu Lys Arg Tyr Ala His Ala Leu Val  
110 115 120  
Phe Gly Ile Leu Leu Thr Cys Arg Leu Leu Ile Ala Arg Lys Pro  
125 130 135  
Glu Asp Arg Ser Ser Glu Lys Lys Pro Leu Pro Gly Asn Ala Glu  
140 145 150  
Glu Gln Pro Ser Leu Tyr Glu Lys Ala Pro Gln Gly Lys Val Lys  
155 160 165  
Val Ser

<210> 47

<211> 545

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1754506

<400> 47

Met Ala Gly Ala Ile Ile Glu Asn Met Ser Thr Lys Lys Leu Cys  
1 5 10 15  
Ile Val Gly Gly Ile Leu Leu Val Phe Gln Ile Ile Ala Phe Leu  
20 25 30  
Val Gly Gly Leu Ile Ala Pro Gly Pro Thr Thr Ala Val Ser Tyr  
35 40 45  
Met Ser Val Lys Cys Val Asp Ala Arg Lys Asn His His Lys Thr  
50 55 60  
Lys Trp Phe Val Pro Trp Gly Pro Asn His Cys Asp Lys Ile Arg  
65 70 75  
Asp Ile Glu Glu Ala Ile Pro Arg Glu Ile Glu Ala Asn Asp Ile  
80 85 90  
Val Phe Ser Val His Ile Pro Leu Pro His Met Glu Met Ser Pro  
95 100 105  
Trp Phe Gln Phe Met Leu Phe Ile Leu Gln Leu Asp Ile Ala Phe  
110 115 120  
Lys Leu Asn Asn Gln Ile Arg Glu Asn Ala Glu Val Ser Met Asp  
125 130 135  
Val Ser Leu Ala Tyr Arg Asp Asp Ala Phe Ala Glu Trp Thr Glu  
140 145 150  
Met Ala His Glu Arg Val Pro Arg Lys Leu Lys Cys Thr Phe Thr  
155 160 165  
Ser Pro Lys Thr Pro Glu His Glu Gly Arg Tyr Tyr Glu Cys Asp  
170 175 180  
Val Leu Pro Phe Met Glu Ile Gly Ser Val Ala His Lys Phe Tyr  
185 190 195  
Leu Leu Asn Ile Arg Leu Pro Val Asn Glu Lys Lys Lys Ile Asn  
200 205 210  
Val Gly Ile Gly Glu Ile Lys Asp Ile Arg Leu Val Gly Ile His  
215 220 225  
Gln Asn Gly Gly Phe Thr Lys Val Trp Phe Ala Met Lys Thr Phe

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230 235 240  
 Leu Thr Pro Ser Ile Phe Ile Ile Met Val Trp Tyr Trp Arg Arg  
 245 250 255  
 Ile Thr Met Met Ser Arg Pro Pro Val Leu Leu Glu Lys Val Ile  
 260 265 270  
 Phe Ala Leu Gly Ile Ser Met Thr Phe Ile Asn Ile Pro Val Glu  
 275 280 285  
 Trp Phe Ser Ile Gly Phe Asp Trp Thr Trp Met Leu Leu Phe Gly  
 290 295 300  
 Asp Ile Arg Gln Gly Ile Phe Tyr Ala Met Leu Leu Ser Phe Trp  
 305 310 315  
 Ile Ile Phe Cys Gly Glu His Met Met Asp Gln His Glu Arg Asn  
 320 325 330  
 His Ile Ala Gly Tyr Trp Lys Gln Val Gly Pro Ile Ala Val Gly  
 335 340 345  
 Ser Phe Cys Leu Phe Ile Phe Asp Met Cys Glu Arg Gly Val Gln  
 350 355 360  
 Leu Thr Asn Pro Phe Tyr Ser Ile Trp Thr Thr Asp Ile Gly Thr  
 365 370 375  
 Glu Leu Ala Met Ala Phe Ile Ile Val Ala Gly Ile Cys Leu Cys  
 380 385 390  
 Leu Tyr Phe Leu Phe Leu Cys Phe Met Val Phe Gln Val Phe Arg  
 395 400 405  
 Asn Ile Ser Gly Lys Gln Ser Ser Leu Pro Ala Met Ser Lys Val  
 410 415 420  
 Arg Arg Leu His Tyr Glu Gly Leu Ile Phe Arg Phe Lys Phe Leu  
 425 430 435  
 Met Leu Ile Thr Leu Ala Cys Ala Ala Met Thr Val Ile Phe Phe  
 440 445 450  
 Ile Val Ser Gln Val Thr Glu Gly His Trp Lys Trp Gly Gly Val  
 455 460 465  
 Thr Val Gln Val Asn Ser Ala Phe Phe Thr Gly Ile Tyr Gly Met  
 470 475 480  
 Trp Asn Leu Tyr Val Phe Ala Leu Met Phe Leu Tyr Ala Pro Ser  
 485 490 495  
 His Lys Asn Tyr Gly Glu Asp Gln Ser Asn Gly Met Gln Leu Pro  
 500 505 510  
 Cys Lys Ser Arg Glu Asp Cys Ala Leu Phe Val Ser Glu Leu Tyr  
 515 520 525  
 Gln Glu Leu Phe Ser Ala Ser Lys Tyr Ser Phe Ile Asn Asp Asn  
 530 535 540  
 Ala Ala Ser Gly Ile  
 545

<210> 48

<211> 570

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1831378

<400> 48



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Met Gly Phe Leu Gln Leu Leu Val Val Ala Val Leu Ala Ser Glu  
 1 5 10 15  
 His Arg Val Ala Gly Ala Ala Glu Val Phe Gly Asn Ser Ser Glu  
 20 25 30  
 Gly Leu Ile Glu Phe Ser Val Gly Lys Phe Arg Tyr Phe Glu Leu  
 35 40 45  
 Asn Arg Pro Phe Pro Glu Glu Ala Ile Leu His Asp Ile Ser Ser  
 50 55 60  
 Asn Val Thr Phe Leu Ile Phe Gln Ile His Ser Gln Tyr Gln Asn  
 65 70 75  
 Thr Thr Val Ser Phe Ser Pro Thr Leu Leu Ser Asn Ser Ser Glu  
 80 85 90  
 Thr Gly Thr Ala Ser Gly Leu Val Phe Ile Leu Arg Pro Glu Gln  
 95 100 105  
 Ser Thr Cys Thr Trp Tyr Leu Gly Thr Ser Gly Ile Gln Pro Val  
 110 115 120  
 Gln Asn Met Ala Ile Leu Leu Ser Tyr Ser Glu Arg Asp Pro Val  
 125 130 135  
 Pro Gly Gly Cys Asn Leu Glu Phe Asp Leu Asp Ile Asp Pro Asn  
 140 145 150  
 Ile Tyr Leu Glu Tyr Asn Phe Phe Glu Thr Thr Ile Lys Phe Ala  
 155 160 165  
 Pro Ala Asn Leu Gly Tyr Ala Arg Gly Val Asp Pro Pro Pro Cys  
 170 175 180  
 Asp Ala Gly Thr Asp Gln Asp Ser Arg Trp Arg Leu Gln Tyr Asp  
 185 190 195  
 Val Tyr Gln Tyr Phe Leu Pro Glu Asn Asp Leu Thr Glu Glu Met  
 200 205 210  
 Leu Leu Lys His Leu Gln Arg Met Val Ser Val Pro Gln Val Lys  
 215 220 225  
 Ala Ser Ala Leu Lys Val Val Thr Leu Thr Ala Asn Asp Lys Thr  
 230 235 240  
 Ser Val Ser Phe Ser Ser Leu Pro Gly Gln Gly Val Ile Tyr Asn  
 245 250 255  
 Val Ile Val Trp Asp Pro Phe Leu Asn Thr Ser Ala Ala Tyr Ile  
 260 265 270  
 Pro Ala His Thr Tyr Ala Cys Ser Phe Glu Ala Gly Glu Gly Ser  
 275 280 285  
 Cys Ala Ser Leu Gly Arg Val Ser Ser Lys Val Phe Phe Thr Leu  
 290 295 300  
 Phe Ala Leu Leu Gly Phe Phe Ile Cys Phe Phe Gly His Arg Phe  
 305 310 315  
 Trp Lys Thr Glu Leu Phe Phe Ile Gly Phe Ile Ile Met Gly Phe  
 320 325 330  
 Phe Phe Tyr Ile Leu Ile Thr Arg Leu Thr Pro Ile Lys Tyr Asp  
 335 340 345  
 Val Asn Leu Ile Leu Thr Ala Val Thr Gly Ser Val Gly Gly Met  
 350 355 360  
 Phe Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys  
 365 370 375  
 Met Leu Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val  
 380 385 390  
 Thr Phe Phe Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp  
 395 400 405

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Q1  
Gly Val Phe Trp Val Thr Phe Ser Cys Ile Ala Ile Leu Ile Pro  
410 415 420  
Val Val Phe Met Gly Cys Leu Arg Ile Leu Asn Ile Leu Thr Cys  
425 430 435  
Gly Val Ile Gly Ser Tyr Ser Val Val Leu Ala Ile Asp Ser Tyr  
440 445 450  
Trp Ser Thr Ser Leu Ser Tyr Ile Thr Leu Asn Val Leu Lys Arg  
455 460 465  
Ala Leu Asn Lys Asp Phe His Arg Ala Phe Thr Asn Val Pro Phe  
470 475 480  
Gln Thr Asn Asp Phe Ile Ile Leu Ala Val Trp Gly Met Leu Ala  
485 490 495  
Val Ser Gly Ile Thr Leu Gln Ile Arg Arg Glu Arg Gly Arg Pro  
500 505 510  
Phe Phe Pro Pro His Pro Tyr Lys Leu Trp Lys Gln Glu Arg Glu  
515 520 525  
Arg Arg Val Thr Asn Ile Leu Asp Pro Ser Tyr His Ile Pro Pro  
530 535 540  
Leu Arg Glu Arg Leu Tyr Gly Arg Leu Thr Gln Ile Lys Gly Leu  
545 550 555  
Phe Gln Lys Glu Gln Pro Ala Gly Glu Arg Thr Pro Leu Leu Leu  
560 565 570

<210> 49

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1864943

<400> 49

Met Arg Arg Arg Phe Trp Gly Val Phe Asn Cys Leu Cys Ala Gly  
1 5 10 15  
Ala Phe Gly Ala Leu Ala Ala Ala Ser Ala Lys Leu Ala Phe Gly  
20 25 30  
Ser Glu Val Ser Met Gly Leu Cys Val Leu Gly Ile Ile Val Met  
35 40 45  
Ala Ser Thr Asn Ser Leu Met Trp Thr Phe Phe Ser Arg Gly Leu  
50 55 60  
Ser Phe Ser Met Ser Ser Ala Ile Ala Ser Val Thr Val Thr Phe  
65 70 75  
Ser Asn Ile Leu Ser Ser Ala Phe Leu Gly Tyr Val Leu Tyr Gly  
80 85 90  
Glu Cys Gln Glu Val Leu Trp Trp Gly Gly Val Phe Leu Ile Leu  
95 100 105  
Cys Gly Leu Thr Leu Ile His Arg Lys Leu Pro Pro Thr Trp Lys  
110 115 120  
Pro Leu Pro His Lys Gln Gln  
125

<210> 50

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<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1911316

<400> 50

Met Asp Asn Val Gln Pro Lys Ile Lys His Arg Pro Phe Cys Phe  
1 5 10 15  
Ser Val Lys Gly His Val Lys Met Leu Arg Leu Ala Leu Thr Val  
20 25 30  
Thr Ser Met Thr Phe Phe Ile Ile Ala Gln Ala Pro Glu Pro Tyr  
35 40 45  
Ile Val Ile Thr Gly Phe Glu Val Thr Val Ile Leu Phe Phe Ile  
50 55 60  
Leu Leu Tyr Val Leu Arg Leu Asp Arg Leu Met Lys Trp Leu Phe  
65 70 75  
Trp Pro Leu Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe  
80 85 90  
Met Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr  
95 100 105  
Leu Thr Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys  
110 115 120  
Cys Leu Ala Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn  
125 130 135  
Pro Ser Gly Pro Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu  
140 145 150  
Val Leu

<210> 51

<211> 777

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1943120

<400> 51

Met Thr Phe Tyr Pro Phe Val Ala Ser Ser Ser Thr Arg Arg Val  
1 5 10 15  
Asp Asn Ser Asn Thr Arg Leu Ala Val Gln Ile Glu Arg Asp Pro  
20 25 30  
Gly Asn Asp Asp Asn Asn Leu Asn Ser Ile Phe Tyr Glu His Leu  
35 40 45  
Thr Arg Thr Leu Leu Glu Ser Leu Cys Gly Asp Leu Val Leu Gly  
50 55 60  
Arg Trp Gly Asn Tyr Ser Ser Gly Asp Cys Phe Ile Leu Ala Ser  
65 70 75  
Asp Asp Leu Asn Ala Phe Val His Leu Ile Glu Ile Gly Asn Gly  
80 85 90

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Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg Gly Thr Tyr  
 95 100 105  
 Cys Gln Gln Arg Glu Val Glu Ala Ile Met Glu Gly Asp Glu Glu  
 110 115 120  
 Asp Arg Gly Cys Cys Cys Cys Lys Pro Gly His Leu Pro His Leu  
 125 130 135  
 Leu Ser Arg Asn Ala Ala Phe His Leu Arg Trp Leu Thr Trp Glu  
 140 145 150  
 Ile Thr Gln Thr Gln Tyr Ile Leu Glu Gly Tyr Ser Ile Leu Asp  
 155 160 165  
 Asn Asn Ala Ala Thr Met Leu Gln Val Phe Asp Leu Arg Arg Ile  
 170 175 180  
 Leu Ile Arg Tyr Tyr Ile Lys Ser Ile Ile Tyr Tyr Met Val Thr  
 185 190 195  
 Ser Pro Lys Leu Leu Ser Trp Ile Lys Asn Glu Ser Leu Leu Lys  
 200 205 210  
 Ser Leu Gln Pro Phe Ala Lys Trp His Tyr Ile Glu Arg Asp Leu  
 215 220 225  
 Ala Met Phe Asn Ile Asn Ile Asp Asp Asp Tyr Val Pro Cys Leu  
 230 235 240  
 Gln Gly Ile Thr Arg Ala Ser Phe Cys Asn Val Tyr Leu Glu Trp  
 245 250 255  
 Ile Gln His Cys Ala Arg Lys Arg Gln Glu Pro Ser Thr Thr Leu  
 260 265 270  
 Asp Ser Asp Glu Asp Ser Pro Leu Val Thr Leu Ser Phe Ala Leu  
 275 280 285  
 Cys Thr Leu Gly Arg Arg Ala Leu Gly Thr Ala Ala His Asn Met  
 290 295 300  
 Ala Ile Ser Leu Asp Ser Phe Leu Tyr Gly Leu His Val Leu Phe  
 305 310 315  
 Lys Gly Asp Phe Arg Ile Thr Ala Arg Asp Glu Trp Val Phe Ala  
 320 325 330  
 Asp Met Asp Leu Leu His Lys Val Val Ala Pro Ala Ile Arg Met  
 335 340 345  
 Ser Leu Lys Leu His Gln Asp Gln Phe Thr Cys Pro Asp Glu Tyr  
 350 355 360  
 Glu Asp Pro Ala Val Leu Tyr Glu Ala Ile Gln Ser Phe Glu Lys  
 365 370 375  
 Lys Val Val Ile Cys His Glu Gly Asp Pro Ala Trp Arg Gly Ala  
 380 385 390  
 Val Leu Ser Asn Lys Glu Glu Leu Leu Thr Leu Arg His Val Val  
 395 400 405  
 Asp Glu Gly Ala Asp Glu Tyr Lys Val Ile Met Leu His Arg Ser  
 410 415 420  
 Phe Leu Ser Phe Lys Val Ile Lys Val Asn Lys Glu Cys Val Arg  
 425 430 435  
 Gly Leu Trp Ala Gly Gln Gln Gln Glu Leu Ile Phe Leu Arg Asn  
 440 445 450  
 Arg Asn Pro Glu Arg Gly Ser Ile Gln Asn Asn Lys Gln Val Leu  
 455 460 465  
 Arg Asn Leu Ile Asn Ser Ser Cys Asp Gln Pro Leu Gly Tyr Pro  
 470 475 480  
 Met Tyr Val Ser Pro Leu Thr Thr Ser Tyr Leu Gly Thr His Arg  
 485 490 495

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Gln Leu Lys Asn Ile Trp Gly Gly Pro Ile Thr Leu Asp Arg Ile  
 500 505 510  
 Arg Thr Trp Phe Trp Thr Lys Trp Val Arg Met Arg Lys Asp Cys  
 515 520 525  
 Asn Ala Arg Gln His Ser Gly Gly Asn Ile Glu Asp Val Asp Gly  
 530 535 540  
 Gly Gly Ala Pro Thr Thr Gly Gly Asn Asn Ala Pro Asn Gly Gly  
 545 550 555  
 Ser Gln Glu Ser Ser Ala Glu Gln Pro Arg Lys Gly Gly Ala Gln  
 560 565 570  
 His Gly Val Ser Ser Cys Glu Gly Thr Gln Arg Thr Gly Arg Arg  
 575 580 585  
 Lys Gly Arg Ser Gln Ser Val Gln Ala His Ser Ala Leu Ser Gln  
 590 595 600  
 Arg Pro Pro Met Leu Ser Ser Ser Gly Pro Ile Leu Glu Ser Arg  
 605 610 615  
 Gln Thr Phe Leu Gln Thr Ser Thr Ser Val His Glu Leu Ala Gln  
 620 625 630  
 Arg Leu Ser Gly Ser Arg Leu Ser Leu His Ala Ser Ala Thr Ser  
 635 640 645  
 Leu His Ser Gln Pro Pro Pro Val Thr Thr Thr Gly His Leu Ser  
 650 655 660  
 Val Arg Glu Arg Ala Glu Ala Leu Ile Arg Ser Ser Leu Gly Ser  
 665 670 675  
 Ser Thr Ser Ser Thr Leu Ser Phe Leu Phe Gly Lys Arg Ser Phe  
 680 685 690  
 Ser Ser Ala Leu Val Ile Ser Gly Leu Ser Ala Ala Glu Gly Gly  
 695 700 705  
 Asn Thr Ser Asp Thr Gln Ser Ser Ser Ser Val Asn Ile Val Met  
 710 715 720  
 Gly Pro Ser Ala Arg Ala Ala Ser Gln Ala Thr Arg Val Arg Gly  
 725 730 735  
 Trp Ala Gly Leu Thr Arg Thr Gly Trp Asp Gly Gly Thr Gly Ser  
 740 745 750  
 Trp Pro Glu Arg Gly Thr Cys Leu Ala Phe Pro Pro Phe Cys Leu  
 755 760 765  
 Gln Asn Pro Ile Pro Phe Ser Met Gly Leu Pro Glu  
 770 775

<210> 52

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2314236

<400> 52

Met Phe Lys His Glu Leu Glu Glu Leu Arg Thr Thr Ile Met Tyr  
 1 5 10 15  
 Arg Asp Ser His Ser Val Leu Ala Leu Asn Trp Lys Val Val Ala  
 20 25 30  
 Thr Leu Lys Tyr Phe Leu Leu Tyr Val Ile Ile Leu Tyr Asn Leu

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			35						40					45
Glu	Arg	Asp	Asn	Gly	His	Ser	Asn	Tyr	Glu	Asn	Tyr	Glu	Leu	Gly
			50						55					60
Asp	Lys	Ser	Leu	Asn	Leu	Leu	Leu	Phe	Tyr	Asn	Ser	Met	Tyr	Lys
			65						70					75
Leu	Val	Phe	Pro	Tyr	Ile	Phe	Thr	Phe	Ser	Ser	Phe	Leu	Ile	Ser
			80						85					90
Ser	Tyr	Thr	Ser	Ile	Leu	Tyr	Lys	Met	Phe	Tyr	Ile	Gln	Arg	Thr
			95						100					105
Val	Lys	Ser												

<210> 53

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2479409

<400> 53

Met	Asn	Leu	Ser	Lys	Lys	Ser	Ile	Leu	Leu	Thr	Gln	Val	Ile	Lys
1				5					10					15
Phe	Val	Asp	Ile	Arg	Leu	Phe	Ile	Met	Val	Pro	Ser	Tyr	Pro	Phe
				20					25					30
Asn	Val	Phe	Arg	Ser	Cys	Val	Asp	Asn	Phe	Leu	Phe	Ile	Met	Ile
				35					40					45
Leu	Val	Ile	Ser	Val	Leu	Thr	Phe	Leu	Ile	Arg	Leu	Gly	Arg	Gly
				50					55					60
Leu	Ser	Val	Leu	Leu	Ile									
				65										

<210> 54

<211> 540

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2683149

<400> 54

Met	Met	Gly	Ser	Pro	Val	Ser	His	Leu	Leu	Ala	Gly	Phe	Cys	Val
1				5					10					15
Trp	Val	Val	Leu	Gly	Trp	Val	Gly	Gly	Ser	Val	Pro	Asn	Leu	Gly
				20					25					30
Pro	Ala	Glu	Gln	Glu	Gln	Asn	His	Tyr	Leu	Ala	Gln	Leu	Phe	Gly
				35					40					45
Leu	Tyr	Gly	Glu	Asn	Gly	Thr	Leu	Thr	Ala	Gly	Gly	Leu	Ala	Arg
				50					55					60
Leu	Leu	His	Ser	Leu	Gly	Leu	Gly	Arg	Val	Gln	Gly	Leu	Arg	Leu
				65					70					75
Gly	Gln	His	Gly	Pro	Leu	Thr	Gly	Arg	Ala	Ala	Ser	Pro	Ala	Ala

80 85 90  
 Asp Asn Ser Thr His Arg Pro Gln Asn Pro Glu Leu Ser Val Asp  
 95 100 105  
 Val Trp Ala Gly Met Pro Leu Gly Pro Ser Gly Trp Gly Asp Leu  
 110 115 120  
 Glu Glu Ser Lys Ala Pro His Leu Pro Arg Gly Pro Ala Pro Ser  
 125 130 135  
 Gly Leu Asp Leu Leu His Arg Leu Leu Leu Leu Asp His Ser Leu  
 140 145 150  
 Ala Asp His Leu Asn Glu Asp Cys Leu Asn Gly Ser Gln Leu Leu  
 155 160 165  
 Val Asn Phe Gly Leu Ser Pro Ala Ala Pro Leu Thr Pro Arg Gln  
 170 175 180  
 Phe Ala Leu Leu Cys Pro Ala Leu Leu Tyr Gln Ile Asp Ser Arg  
 185 190 195  
 Val Cys Ile Gly Ala Pro Ala Pro Ala Pro Pro Gly Asp Leu Leu  
 200 205 210  
 Ser Ala Leu Leu Gln Ser Ala Leu Ala Val Leu Leu Leu Ser Leu  
 215 220 225  
 Pro Ser Pro Leu Ser Leu Leu Leu Leu Leu Leu Gly Pro Arg  
 230 235 240  
 Leu Leu Arg Pro Leu Leu Gly Phe Leu Gly Ala Leu Ala Val Gly  
 245 250 255  
 Thr Leu Cys Gly Asp Ala Leu Leu His Leu Leu Pro His Ala Gln  
 260 265 270  
 Glu Gly Arg His Ala Gly Pro Gly Gly Leu Pro Glu Lys Asp Leu  
 275 280 285  
 Gly Pro Gly Leu Ser Val Leu Gly Gly Leu Phe Leu Leu Phe Val  
 290 295 300  
 Leu Glu Asn Met Leu Gly Leu Leu Arg His Arg Gly Leu Arg Pro  
 305 310 315  
 Arg Cys Cys Arg Arg Lys Arg Arg Asn Leu Glu Thr Arg Asn Leu  
 320 325 330  
 Asp Pro Glu Asn Gly Ser Gly Met Ala Leu Gln Pro Leu Gln Ala  
 335 340 345  
 Ala Pro Glu Pro Gly Ala Gln Gly Gln Arg Glu Lys Asn Ser Gln  
 350 355 360  
 His Pro Pro Ala Leu Ala Pro Pro Gly His Gln Gly His Ser His  
 365 370 375  
 Gly His Gln Gly Gly Thr Asp Ile Thr Trp Met Val Leu Leu Gly  
 380 385 390  
 Asp Gly Leu His Asn Leu Thr Asp Gly Leu Ala Ile Gly Ala Ala  
 395 400 405  
 Phe Ser Asp Gly Phe Ser Ser Gly Leu Ser Thr Thr Leu Ala Val  
 410 415 420  
 Phe Cys His Glu Leu Pro His Glu Leu Gly Asp Phe Ala Met Leu  
 425 430 435  
 Leu Gln Ser Gly Leu Ser Phe Arg Arg Leu Leu Leu Leu Ser Leu  
 440 445 450  
 Val Ser Gly Ala Leu Gly Leu Gly Gly Ala Val Leu Gly Val Gly  
 455 460 465  
 Leu Ser Leu Gly Pro Val Pro Leu Thr Pro Trp Val Phe Gly Val  
 470 475 480  
 Thr Ala Gly Val Phe Leu Tyr Val Ala Leu Val Asp Met Leu Pro

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	485		490		495									
Ala	Leu	Leu	Arg	Pro	Pro	Glu	Pro	Leu	Pro	Thr	Pro	His	Val	Leu
	500													510
Leu	Gln	Gly	Leu	Gly	Leu	Leu	Leu	Gly	Gly	Gly	Leu	Met	Leu	Ala
	515													525
Ile	Thr	Leu	Leu	Glu	Glu	Arg	Leu	Leu	Pro	Val	Thr	Thr	Glu	Gly
	530													540

Q1  
<210> 55  
<211> 87  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2774051

<400> 55  
Met Pro Phe Thr Leu Asp Asp Tyr Gly Ala Tyr Ser Ser Gln Lys  
1 5 10 15  
Gln Tyr Thr Cys Gln Phe Pro Ser Thr Ile Ala Ile His Ala Glu  
20 25 30  
Asp Lys Arg Pro Pro Gln Ser Arg Arg Gly Ile Val Leu Gly Pro  
35 40 45  
Ile Phe Leu Ile Val Leu Lys Ile Ile Ile Arg Trp Thr Val Phe  
50 55 60  
Cys Glu Asp Phe Leu Phe Pro Ser Ser Lys Lys Pro Cys Gly Lys  
65 70 75  
Asn Ser Leu Ile Thr Val Leu Ile Phe Phe Phe Phe  
80 85

<210> 56  
<211> 100  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2869038

<400> 56  
Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile  
1 5 10 15  
Met Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe  
20 25 30  
Leu Arg Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly  
35 40 45  
Glu Ala Tyr Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys  
50 55 60  
Gln Phe Leu Met Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly  
65 70 75  
Met Met Thr Gly Gly Val Trp Gly Phe Phe Leu Tyr Ser Phe Phe  
80 85 90



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Asn Glu Lys Ser Phe Lys Cys Ser Thr Gly  
95 100

<210> 57  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2918334

<400> 57  
Met Asp Leu Leu Tyr Glu Ile Leu Leu Ala Leu Tyr Tyr Asn Ile  
1 5 10 15  
Cys Tyr Asp Ile Pro Phe Ile Phe Phe Asn Leu Asn Met Met Phe  
20 25 30  
Tyr Ile Val Leu Asp Leu Arg Ile Val Phe Phe Arg Thr Ile Arg  
35 40 45  
Glu Tyr Leu Ser Pro Pro Ser Leu Ser Phe Tyr Ile Tyr  
50 55

<210> 58  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2949916

<400> 58  
Met Arg Arg Ile Ile Arg Leu Arg Leu Arg Phe Ser Asp Thr Phe  
1 5 10 15  
Met Ala Ala Phe Leu Leu Cys Leu Gly Phe Val Leu Met Leu Phe  
20 25 30  
Pro Ser Leu Leu Arg Asp Gly Gly Ser Ile Ser Ser Cys Arg Asn  
35 40 45  
Ser Cys Ser Ser Pro Ser Ser Glu Glu Arg His Phe Ser Asn Leu  
50 55 60  
Glu

<210> 59  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2989375

<400> 59  
Met Cys Leu Thr Pro His Arg Asp Ser Met Cys Glu Asp Ser Pro

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1 5 10 15  
Phe Thr His Gln Ile Ile Ser Met Ala Thr Ala Cys Ser Leu Leu  
20 25 30  
Leu Glu Cys Phe Val Leu Ala Ala Ser Leu Leu Val Cys Val Trp  
35 40 45  
Ser Glu Trp Arg Arg  
50

<210> 60  
<211> 310  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3316764

<400> 60  
Met Arg Arg Thr Ala Phe Ile Leu Gly Ser Gly Leu Leu Ser Phe  
1 5 10 15  
Val Ala Phe Trp Asn Ser Val Thr Trp His Leu Gln Arg Phe Trp  
20 25 30  
Gly Ala Ser Gly Tyr Phe Trp Gln Ala Gln Trp Glu Arg Leu Leu  
35 40 45  
Thr Thr Phe Glu Gly Lys Glu Trp Ile Leu Phe Phe Ile Gly Ala  
50 55 60  
Ile Gln Val Pro Cys Leu Phe Phe Trp Ser Phe Asn Gly Leu Leu  
65 70 75  
Leu Val Val Asp Thr Thr Gly Lys Pro Asn Phe Ile Ser Arg Tyr  
80 85 90  
Arg Ile Gln Val Gly Lys Asn Glu Pro Val Asp Pro Val Lys Leu  
95 100 105  
Arg Gln Ser Ile Arg Thr Val Leu Phe Asn Gln Cys Met Ile Ser  
110 115 120  
Phe Pro Met Val Val Phe Leu Tyr Pro Phe Leu Lys Trp Trp Arg  
125 130 135  
Asp Pro Cys Arg Arg Glu Leu Pro Thr Phe His Trp Phe Leu Leu  
140 145 150  
Glu Leu Ala Ile Phe Thr Leu Ile Glu Glu Val Leu Phe Tyr Tyr  
155 160 165  
Ser His Arg Leu Leu His His Pro Thr Phe Tyr Lys Lys Ile His  
170 175 180  
Lys Lys His His Glu Trp Thr Ala Pro Ile Gly Val Ile Ser Leu  
185 190 195  
Tyr Ala His Pro Ile Glu His Ala Val Ser Asn Met Leu Pro Val  
200 205 210  
Ile Val Gly Pro Leu Val Met Gly Ser His Leu Ser Ser Ile Thr  
215 220 225  
Met Trp Phe Ser Leu Ala Leu Ile Ile Thr Thr Ile Ser His Cys  
230 235 240  
Gly Tyr His Leu Pro Phe Leu Pro Ser Pro Glu Phe His Asp Tyr  
245 250 255  
His His Leu Lys Phe Asn Gln Cys Tyr Gly Val Leu Gly Val Leu  
260 265 270

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Asp His Leu His Gly Thr Asp Thr Met Phe Lys Gln Thr Lys Ala  
275 280 285  
Tyr Glu Arg His Val Leu Leu Leu Gly Phe Thr Pro Leu Ser Glu  
290 295 300  
Ser Ile Pro Asp Ser Pro Lys Arg Met Glu  
305 310

<210> 61  
<211> 160  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3359559

<400> 61  
Met Ala Pro Ala Leu Trp Arg Ala Cys Asn Gly Leu Met Ala Ala  
1 5 10 15  
Phe Phe Ala Leu Ala Ala Leu Val Gln Val Asn Asp Pro Asp Ala  
20 25 30  
Glu Val Trp Val Val Val Tyr Thr Ile Pro Ala Val Leu Thr Leu  
35 40 45  
Leu Val Gly Leu Asn Pro Glu Val Thr Gly Asn Val Ile Trp Lys  
50 55 60  
Ser Ile Ser Ala Ile His Ile Leu Phe Cys Thr Val Trp Ala Val  
65 70 75  
Gly Leu Ala Ser Tyr Leu Leu His Arg Thr Gln Gln Asn Ile Leu  
80 85 90  
His Glu Glu Glu Gly Arg Glu Leu Ser Gly Leu Val Ile Ile Thr  
95 100 105  
Ala Trp Ile Ile Leu Cys His Ser Ser Ser Lys Asn Pro Val Gly  
110 115 120  
Gly Arg Ile Gln Leu Ala Ile Ala Ile Val Ile Thr Leu Phe Pro  
125 130 135  
Phe Ile Ser Trp Val Tyr Ile Tyr Ile Asn Lys Glu Met Arg Ser  
140 145 150  
Ser Trp Pro Thr His Cys Lys Thr Val Ile  
155 160

<210> 62  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 4289208

<400> 62  
Met Ala Val Val Asp Ala Gly Asn Asn Gly Lys Val Leu Asp Arg  
1 5 10 15  
Val Cys Val Arg Ser Val Pro Ala Leu Phe Leu Ser Lys Cys Ile  
20 25 30

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Ser Leu Asp Met Glu  
35

<210> 63

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2454013

<400> 63

Met Ala Ala Pro Lys Gly Ser Leu Trp Val Arg Thr Gln Leu Gly  
1 5 10 15  
Leu Pro Pro Leu Leu Leu Leu Thr Met Ala Leu Ala Gly Gly Ser  
20 25 30  
Gly Thr Ala Ser Ala Glu Ala Phe Asp Ser Val Leu Gly Asp Thr  
35 40 45  
Ala Ser Cys His Arg Ala Cys Gln Leu Thr Tyr Pro Leu His Thr  
50 55 60  
Tyr Pro Lys Glu Glu Glu Leu Tyr Ala Cys Gln Arg Gly Cys Arg  
65 70 75  
Leu Phe Ser Ile Cys Gln Phe Val Asp Asp Gly Ile Asp Leu Asn  
80 85 90  
Arg Thr Lys Leu Glu Cys Glu Ser Ala Cys Thr Glu Ala Tyr Ser  
95 100 105  
Gln Ser Asp Glu Gln Tyr Ala Cys His Leu Gly Cys Gln Asn Gln  
110 115 120  
Leu Pro Phe Ala Glu Leu Arg Gln Glu Gln Leu Met Ser Leu Met  
125 130 135  
Pro Lys Met His Leu Leu Phe Pro Leu Thr Leu Val Arg Ser Phe  
140 145 150  
Trp Ser Asp Met Met Asp Ser Ala Gln Ser Phe Ile Thr Ser Ser  
155 160 165  
Trp Thr Phe Tyr Leu Gln Ala Asp Asp Gly Lys Ile Val Ile Phe  
170 175 180  
Gln Ser Lys Pro Glu Ile Gln Tyr Ala Pro His Leu Glu Gln Glu  
185 190 195  
Pro Thr Asn Leu Arg Glu Ser Ser Leu Ser Lys Met Ser Tyr Leu  
200 205 210  
Gln Met Arg Asn Ser Gln Ala His Arg Asn Phe Leu Glu Asp Gly  
215 220 225  
Glu Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn Ser Gly Trp  
230 235 240  
Ile Leu Thr Thr Thr Leu Val Leu Ser Val Met Val Leu Leu Trp  
245 250 255  
Ile Cys Cys Ala Thr Val Ala Thr Ala Val Glu Gln Tyr Val Pro  
260 265 270  
Ser Glu Lys Leu Ser Ile Tyr Gly Asp Leu Glu Phe Met Asn Glu  
275 280 285  
Gln Lys Leu Asn Arg Tyr Pro Ala Ser Ser Leu Val Val Val Arg  
290 295 300  
Ser Lys Thr Glu Asp His Glu Glu Ala Gly Pro Leu Pro Thr Lys

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Val Asn Leu Ala His Ser Glu Ile  
305 310 315  
320

<210> 64  
<211> 129  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 2454048

Q1  
<400> 64  
Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu  
1 5 10 15  
Gly Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala  
20 25 30  
Pro Gly Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp  
35 40 45  
Leu Asp Lys Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His  
50 55 60  
Ser Asp Phe Cys Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe  
65 70 75  
Arg Leu Leu Trp Pro Ile Leu Gly Gly Ala Leu Ser Leu Thr Phe  
80 85 90  
Val Leu Gly Leu Leu Ser Gly Phe Leu Val Trp Arg Arg Cys Arg  
95 100 105  
Arg Arg Glu Lys Phe Thr Thr Pro Ile Glu Glu Thr Gly Gly Glu  
110 115 120  
Gly Cys Pro Ala Val Ala Leu Ile Gln  
125

<210> 65  
<211> 461  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<223> Incyte ID No: 2479282

<400> 65  
Met Ala Pro Gln Ser Leu Pro Ser Ser Arg Met Ala Pro Leu Gly  
1 5 10 15  
Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu  
20 25 30  
Ser His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys  
35 40 45  
Ser Ser Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu  
50 55 60  
Glu Leu Asp Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu  
65 70 75  
Trp Gln Ala Leu Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His

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80 85 90  
 Val Arg Leu Asn Leu Gln Thr Gly Glu Arg Glu Ala Lys Leu Gln  
 95 100 105  
 Tyr Glu Asp Lys Phe Arg Asn Asn Leu Lys Gly Lys Arg Leu Asp  
 110 115 120  
 Ile Asn Thr Asn Thr Tyr Thr Ser Gln Asp Leu Lys Ser Ala Leu  
 125 130 135  
 Ala Lys Phe Lys Glu Gly Ala Glu Met Glu Ser Ser Lys Glu Asp  
 140 145 150  
 Lys Ala Arg Gln Ala Glu Val Lys Arg Leu Phe Arg Pro Ile Glu  
 155 160 165  
 Glu Leu Lys Lys Asp Phe Asp Glu Leu Asn Val Val Ile Glu Thr  
 170 175 180  
 Asp Met Gln Ile Met Val Arg Leu Ile Asn Lys Phe Asn Ser Ser  
 185 190 195  
 Ser Ser Ser Leu Glu Glu Lys Ile Ala Ala Leu Phe Asp Leu Glu  
 200 205 210  
 Tyr Tyr Val His Gln Met Asp Asn Ala Gln Asp Leu Leu Ser Phe  
 215 220 225  
 Gly Gly Leu Gln Val Val Ile Asn Gly Leu Asn Ser Thr Glu Pro  
 230 235 240  
 Leu Val Lys Glu Tyr Ala Ala Phe Val Leu Gly Ala Ala Phe Ser  
 245 250 255  
 Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly Ala Leu  
 260 265 270  
 Gln Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr Ala  
 275 280 285  
 Lys Lys Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe  
 290 295 300  
 Pro Tyr Ala Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val  
 305 310 315  
 Leu Arg Thr Leu Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val  
 320 325 330  
 Arg Val Val Thr Leu Leu Tyr Asp Leu Val Thr Glu Lys Met Phe  
 335 340 345  
 Ala Glu Glu Glu Ala Glu Leu Thr Gln Glu Met Ser Pro Glu Lys  
 350 355 360  
 Leu Gln Gln Tyr Arg Gln Val His Leu Leu Pro Gly Leu Trp Glu  
 365 370 375  
 Gln Gly Trp Cys Glu Ile Thr Ala His Leu Leu Ala Leu Pro Glu  
 380 385 390  
 His Asp Ala Arg Glu Lys Val Leu Gln Thr Leu Gly Val Leu Leu  
 395 400 405  
 Thr Thr Cys Arg Asp Arg Tyr Arg Gln Asp Pro Gln Leu Gly Arg  
 410 415 420  
 Thr Leu Ala Ser Leu Gln Ala Glu Tyr Gln Val Leu Ala Ser Leu  
 425 430 435  
 Glu Leu Gln Asp Gly Glu Asp Glu Gly Tyr Phe Gln Glu Leu Leu  
 440 445 450  
 Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg  
 455 460

<210> 66

<211> 264

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<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2483432

<400> 66

Met Arg Pro Leu Leu Gly Leu Leu Leu Val Phe Ala Gly Cys Thr  
1 5 10 15  
Phe Ala Leu Tyr Leu Leu Ser Thr Arg Leu Pro Arg Gly Arg Arg  
20 25 30  
Leu Gly Ser Thr Glu Glu Ala Gly Gly Arg Ser Leu Trp Phe Pro  
35 40 45  
Ser Asp Leu Ala Glu Leu Arg Glu Leu Ser Glu Val Leu Arg Glu  
50 55 60  
Tyr Arg Lys Glu His Gln Ala Tyr Val Phe Leu Leu Phe Cys Gly  
65 70 75  
Ala Tyr Leu Tyr Lys Gln Gly Phe Ala Ile Pro Gly Ser Ser Phe  
80 85 90  
Leu Asn Val Leu Ala Gly Ala Leu Phe Gly Pro Trp Leu Gly Leu  
95 100 105  
Leu Leu Cys Cys Val Leu Thr Ser Val Gly Ala Thr Cys Cys Tyr  
110 115 120  
Leu Leu Ser Ser Ile Phe Gly Lys Gln Leu Val Val Ser Tyr Phe  
125 130 135  
Pro Asp Lys Val Ala Leu Leu Gln Arg Lys Val Glu Glu Asn Arg  
140 145 150  
Asn Ser Leu Phe Phe Phe Leu Leu Phe Leu Arg Leu Phe Pro Met  
155 160 165  
Thr Pro Asn Trp Phe Leu Asn Leu Ser Ala Pro Ile Leu Asn Ile  
170 175 180  
Pro Ile Val Gln Phe Phe Phe Ser Val Leu Ile Gly Leu Ile Pro  
185 190 195  
Tyr Asn Phe Ile Cys Val Gln Thr Gly Ser Ile Leu Ser Thr Leu  
200 205 210  
Thr Ser Leu Asp Ala Leu Phe Ser Trp Asp Thr Val Phe Lys Leu  
215 220 225  
Leu Ala Ile Ala Met Val Ala Leu Ile Pro Gly Thr Leu Ile Lys  
230 235 240  
Lys Phe Ser Gln Lys His Leu Gln Leu Asn Glu Thr Ser Thr Ala  
245 250 255  
Asn His Ile His Ser Arg Lys Asp Thr  
260

<210> 67

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2493824

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<400> 67

Q1  
Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu  
1 5 10 15  
Leu Gly Leu His Leu Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly  
20 25 30  
Trp Asn Asp Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu  
35 40 45  
Thr Leu His Tyr Asp Arg Tyr Thr Thr Ser Arg Arg Leu Asp Pro  
50 55 60  
Ile Pro Gln Leu Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser  
65 70 75  
Tyr Thr Pro Lys Val Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly  
80 85 90  
Tyr Asp Val Gln Trp Glu Cys Lys Thr Asp Leu Asp Ile Ala Tyr  
95 100 105  
Lys Phe Gly Lys Thr Val Val Ser Cys Glu Gly Tyr Glu Ser Ser  
110 115 120  
Glu Asp Gln Tyr Val Leu Arg Gly Ser Cys Gly Leu Glu Tyr Asn  
125 130 135  
Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu Ser Gly  
140 145 150  
Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys Trp  
155 160 165  
Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu Ile Thr Ile Val  
170 175 180  
Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu Phe Leu Ser  
185 190 195  
Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro Pro Phe  
200 205 210  
Ser His Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro Pro  
215 220 225  
Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His  
230 235 240  
Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly  
245 250 255  
Tyr Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly  
260 265 270  
Gly Ile Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala Ala Thr Pro  
275 280 285  
Phe Ser Asp Ser Trp Tyr Tyr Pro Ser Tyr Pro Pro Ser Tyr Pro  
290 295 300  
Gly Thr Trp Asn Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly  
305 310 315  
Ser Tyr Ser Val Cys Ser Asn Ser Asp Thr Lys Thr Arg Thr Ala  
320 325 330  
Ser Gly Tyr Gly Gly Thr Arg Arg Arg  
335

<210> 68

<211> 397

<212> PRT

<213> Homo sapiens

<220>



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<221> misc\_feature

<223> Incyte ID No: 2555823

<400> 68

Met Val Arg Pro Gly Ala Arg Leu Cys Leu Gly Ser Val Gly Arg  
1 5 10 15  
Gly Leu Cys Leu Val Leu Pro Leu Leu Cys Leu Gly Ala Gly Phe  
20 25 30  
Leu Phe Leu Asn Thr Leu Phe Ile Gln Arg Gly Arg His Glu Thr  
35 40 45  
Thr Trp Thr Ile Leu Arg Arg Phe Gly Tyr Ser Asp Ala Leu Glu  
50 55 60  
Leu Thr Ala Asp Tyr Leu Ser Pro Leu Ile His Val Pro Pro Gly  
65 70 75  
Cys Ser Thr Glu Leu Asn His Leu Gly Tyr Gln Phe Val Gln Arg  
80 85 90  
Val Phe Glu Lys His Asp Gln Asp Arg Asp Gly Ala Leu Ser Pro  
95 100 105  
Val Glu Leu Gln Ser Leu Phe Ser Val Phe Pro Ala Ala Pro Trp  
110 115 120  
Gly Pro Glu Leu Pro Arg Thr Val Arg Thr Glu Ala Gly Arg Leu  
125 130 135  
Pro Leu His Gly Tyr Leu Cys Gln Trp Thr Leu Val Thr Tyr Leu  
140 145 150  
Asp Val Arg Ser Cys Leu Gly His Leu Gly Tyr Leu Gly Tyr Pro  
155 160 165  
Thr Leu Cys Glu Gln Asp Gln Ala His Ala Ile Thr Val Thr Arg  
170 175 180  
Glu Lys Arg Leu Asp Gln Glu Lys Gly Gln Thr Gln Arg Ser Val  
185 190 195  
Leu Leu Cys Lys Val Val Gly Ala Arg Gly Val Gly Lys Ser Ala  
200 205 210  
Phe Leu Gln Ala Phe Leu Gly Arg Gly Leu Gly His Gln Asp Thr  
215 220 225  
Arg Glu Gln Pro Pro Gly Tyr Ala Ile Asp Thr Val Gln Val Asn  
230 235 240  
Gly Gln Glu Lys Tyr Leu Ile Leu Cys Glu Val Gly Thr Asp Gly  
245 250 255  
Leu Leu Ala Thr Ser Leu Asp Ala Thr Cys Asp Val Ala Cys Leu  
260 265 270  
Met Phe Asp Gly Ser Asp Pro Lys Ser Phe Ala His Cys Ala Ser  
275 280 285  
Val Tyr Lys His His Tyr Met Asp Gly Gln Thr Pro Cys Leu Phe  
290 295 300  
Val Ser Ser Lys Ala Asp Leu Pro Glu Gly Val Ala Val Ser Gly  
305 310 315  
Pro Ser Pro Ala Glu Phe Cys Arg Lys His Arg Leu Pro Ala Pro  
320 325 330  
Val Pro Phe Ser Cys Ala Gly Pro Ala Glu Pro Ser Thr Thr Ile  
335 340 345  
Phe Thr Gln Leu Ala Thr Met Ala Ala Phe Pro His Leu Val His  
350 355 360  
Ala Glu Leu His Pro Ser Ser Phe Trp Leu Arg Gly Leu Leu Gly  
365 370 375

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Val Val Gly Ala Ala Val Ala Ala Val Leu Ser Phe Ser Leu Tyr  
380 385 390  
Arg Val Leu Val Lys Ser Gln  
395

<210> 69  
<211> 301  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2598242

<400> 69  
Met Glu Leu Ser Asp Val Thr Leu Ile Glu Gly Val Gly Asn Glu  
1 5 10 15  
Val Met Val Val Ala Gly Val Val Val Leu Ile Leu Ala Leu Val  
20 25 30  
Leu Ala Trp Leu Ser Thr Tyr Val Ala Asp Ser Gly Ser Asn Gln  
35 40 45  
Leu Leu Gly Ala Ile Val Ser Ala Gly Asp Thr Ser Val Leu His  
50 55 60  
Leu Gly His Val Asp His Leu Val Ala Gly Gln Gly Asn Pro Glu  
65 70 75  
Pro Thr Glu Leu Pro His Pro Ser Glu Gly Asn Asp Glu Lys Ala  
80 85 90  
Glu Glu Ala Gly Glu Gly Arg Gly Asp Ser Thr Gly Glu Ala Gly  
95 100 105  
Ala Gly Gly Gly Val Glu Pro Ser Leu Glu His Leu Leu Asp Ile  
110 115 120  
Gln Gly Leu Pro Lys Arg Gln Ala Gly Ala Gly Ser Ser Ser Pro  
125 130 135  
Glu Ala Pro Leu Arg Ser Glu Asp Ser Thr Cys Leu Pro Pro Ser  
140 145 150  
Pro Gly Leu Ile Thr Val Arg Leu Lys Phe Leu Asn Asp Thr Glu  
155 160 165  
Glu Leu Ala Val Ala Arg Pro Glu Asp Thr Val Gly Ala Leu Lys  
170 175 180  
Ser Lys Tyr Phe Pro Gly Gln Glu Ser Gln Met Lys Leu Ile Tyr  
185 190 195  
Gln Gly Arg Leu Leu Gln Asp Pro Ala Arg Thr Leu Arg Ser Leu  
200 205 210  
Asn Ile Thr Asp Asn Cys Val Ile His Cys His Arg Ser Pro Pro  
215 220 225  
Gly Ser Ala Val Pro Gly Pro Ser Ala Ser Leu Ala Pro Ser Ala  
230 235 240  
Thr Glu Pro Pro Ser Leu Gly Val Asn Val Gly Ser Leu Met Val  
245 250 255  
Pro Val Phe Val Val Leu Leu Gly Val Val Trp Tyr Phe Arg Ile  
260 265 270  
Asn Tyr Arg Gln Phe Phe Thr Ala Pro Ala Thr Val Ser Leu Val  
275 280 285  
Gly Val Thr Val Phe Phe Ser Phe Leu Val Phe Gly Met Tyr Gly

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Arg 290 295 300

<210> 70  
<211> 217  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2634120

Q1  
<400> 70  
Met Val Glu Val Gln Leu Glu Ser Asp His Glu Tyr Pro Pro Gly  
1 5 10 15  
Leu Leu Val Ala Phe Ser Ala Cys Thr Thr Val Leu Val Ala Val  
20 25 30  
His Leu Phe Ala Leu Met Val Ser Thr Cys Leu Leu Pro His Ile  
35 40 45  
Glu Ala Val Ser Asn Ile His Asn Leu Asn Ser Val His Gln Ser  
50 55 60  
Pro His Gln Arg Leu His Arg Tyr Val Glu Leu Ala Trp Gly Phe  
65 70 75  
Ser Thr Ala Leu Gly Thr Phe Leu Phe Leu Ala Glu Val Val Leu  
80 85 90  
Val Gly Trp Val Lys Phe Val Pro Ile Gly Ala Pro Leu Asp Thr  
95 100 105  
Pro Thr Pro Met Val Pro Thr Ser Arg Val Pro Gly Thr Leu Ala  
110 115 120  
Pro Val Ala Thr Ser Leu Ser Pro Ala Ser Asn Leu Pro Arg Ser  
125 130 135  
Ser Ala Ser Ala Ala Pro Ser Gln Ala Glu Pro Ala Cys Pro Pro  
140 145 150  
Arg Gln Ala Cys Gly Gly Gly Gly Ala His Gly Pro Gly Trp Gln  
155 160 165  
Ala Ala Met Ala Ser Thr Ala Ile Met Val Pro Val Gly Leu Val  
170 175 180  
Phe Val Ala Phe Ala Leu His Phe Tyr Arg Ser Leu Val Ala His  
185 190 195  
Lys Thr Asp Arg Tyr Lys Gln Glu Leu Glu Glu Leu Asn Arg Leu  
200 205 210  
Gln Gly Glu Leu Gln Ala Val  
215

<210> 71  
<211> 143  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2765411

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<400> 71

Met Phe Pro Val Leu Gly Trp Ile Leu Ile Ala Val Val Ile Ile  
1 5 10 15  
Ile Leu Leu Ile Phe Thr Ser Val Thr Arg Cys Leu Ser Pro Val  
20 25 30  
Ser Phe Leu Gln Leu Lys Phe Trp Lys Ile Tyr Leu Glu Gln Glu  
35 40 45  
Gln Gln Ile Leu Lys Ser Lys Ala Thr Glu His Ala Thr Glu Leu  
50 55 60  
Ala Lys Glu Asn Ile Lys Cys Phe Phe Glu Gly Ser His Pro Lys  
65 70 75  
Glu Tyr Asn Thr Pro Ser Met Lys Glu Trp Gln Gln Ile Ser Ser  
80 85 90  
Leu Tyr Thr Phe Asn Pro Lys Gly Gln Tyr Tyr Ser Met Leu His  
95 100 105  
Lys Tyr Val Asn Arg Lys Glu Lys Thr His Ser Ile Arg Ser Thr  
110 115 120  
Glu Gly Asp Thr Val Ile Pro Val Leu Gly Phe Val Asp Ser Ser  
125 130 135  
Gly Ile Asn Ser Thr Pro Glu Leu  
140

<210> 72

<211> 186

<212> FRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2769412

<400> 72

Met Ser Gly Ile Ser Gly Cys Pro Phe Phe Leu Trp Gly Leu Leu  
1 5 10 15  
Ala Leu Leu Gly Leu Ala Leu Val Ile Ser Leu Ile Phe Asn Ile  
20 25 30  
Ser His Tyr Val Glu Lys Gln Arg Gln Asp Lys Met Tyr Ser Tyr  
35 40 45  
Ser Ser Asp His Thr Arg Val Asp Glu Tyr Tyr Ile Glu Asp Thr  
50 55 60  
Pro Ile Tyr Gly Asn Leu Asp Asp Met Ile Ser Glu Pro Met Asp  
65 70 75  
Glu Asn Cys Tyr Glu Gln Met Lys Ala Arg Pro Glu Lys Ser Val  
80 85 90  
Asn Lys Met Gln Glu Ala Thr Pro Ser Ala Gln Ala Thr Asn Glu  
95 100 105  
Thr Gln Met Cys Tyr Ala Ser Leu Asp His Ser Val Lys Gly Lys  
110 115 120  
Arg Arg Lys Pro Arg Lys Gln Asn Thr His Phe Ser Asp Lys Asp  
125 130 135  
Gly Asp Glu Gln Leu His Ala Ile Asp Ala Ser Val Ser Lys Thr  
140 145 150  
Thr Leu Val Asp Ser Phe Ser Pro Glu Ser Gln Ala Val Glu Glu  
155 160 165

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Asn Ile His Asp Asp Pro Ile Arg Leu Phe Gly Leu Ile Arg Ala  
170 175 180  
Lys Arg Glu Pro Ile Asn  
185

<210> 73

<211> 364

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2842779

<400> 73

Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly Pro Arg  
1 5 10 15  
Leu Leu Phe Leu Thr Ala Leu Ala Leu Glu Leu Leu Gly Arg Ala  
20 25 30  
Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala  
35 40 45  
Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu  
50 55 60  
Ser Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser  
65 70 75  
Leu Met Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro  
80 85 90  
Leu Glu Met Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg  
95 100 105  
Leu Lys Gln Leu Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn  
110 115 120  
Val Phe Leu His Leu Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser  
125 130 135  
Ala Ser Pro Gly Gly Glu Gly Gln Ser Leu Gln Gln Gln Gln Gln  
140 145 150  
Leu Gly Leu Trp Val Ile Ala Gly Ile Leu Thr Phe Leu Ala Leu  
155 160 165  
Glu Lys Met Phe Leu Asp Ser Lys Glu Glu Gly Thr Ser Gln Ala  
170 175 180  
Pro Asn Lys Asp Pro Thr Ala Ala Ala Ala Ala Leu Asn Gly Gly  
185 190 195  
His Cys Leu Ala Gln Pro Ala Ala Glu Pro Gly Leu Gly Ala Val  
200 205 210  
Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn Leu Leu Ala Asn  
215 220 225  
Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala Ala Ser Phe  
230 235 240  
Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala Ile Leu  
245 250 255  
Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu Leu  
260 265 270  
Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser  
275 280 285  
Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr

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	290		295		300
Gln Ser Pro Lys	Gly Val Glu Glu Thr	Ala Ala Trp Val Leu Pro			
	305		310		315
Phe Thr Ser Gly	Gly Phe Leu Tyr Ile	Ala Leu Val Asn Val Leu			
	320		325		330
Pro Asp Leu Leu	Glu Glu Glu Asp Pro	Trp Arg Ser Leu Gln Gln			
	335		340		345
Leu Leu Leu Leu	Cys Ala Gly Ile Val	Val Met Val Leu Phe Ser			
	350		355		360
Leu Phe Val Asp					

<210> 74

<211> 605

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2966260

<400> 74

Met Gly Arg Leu Leu Arg Ala Ala Arg Leu Pro Pro Leu Leu Ser		
1	5	10 15
Pro Leu Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys		
	20	25 30
Val Ala Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr		
	35	40 45
Ser Leu Leu Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp		
	50	55 60
Ser Glu Glu Pro Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly		
	65	70 75
Ala Pro Gly Ser Gly Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg		
	80	85 90
Ile Leu Gln Pro Pro Gln Tyr Phe Trp Glu Glu Glu Glu Leu		
	95	100 105
Asn Asp Ser Ser Leu Asp Leu Gly Pro Thr Ala Asp Tyr Val Phe		
	110	115 120
Pro Asp Leu Thr Glu Lys Ala Gly Ser Ile Glu Asp Thr Ser Gln		
	125	130 135
Ala Gln Glu Leu Pro Asn Leu Pro Ser Pro Leu Pro Lys Met Asn		
	140	145 150
Leu Val Glu Pro Pro Trp His Met Pro Pro Arg Glu Glu Glu Glu		
	155	160 165
Glu Glu Glu Glu Glu Glu Glu Met Glu Lys Glu Glu Val Glu Lys		
	170	175 180
Gln Asp Val Glu Glu Glu Glu Glu Leu Leu Pro Val Asn Gly Ser		
	185	190 195
Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu Thr Ser		
	200	205 210
Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp Ser		
	215	220 225
Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly		
	230	235 240

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Pro Ser Leu Leu Leu Pro Ser Val Thr Pro Thr Ile Val Thr Pro  
 245 250 255  
 Gly Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu  
 260 265 270  
 Pro Ala Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala  
 275 280 285  
 Ser Glu Glu Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His  
 290 295 300  
 Glu Glu Val Pro Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro  
 305 310 315  
 Ser Gly Ala Glu His Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr  
 320 325 330  
 Ser Ala Ser Ser Pro Leu Ala Pro Gly Asp Met Glu Leu Thr Pro  
 335 340 345  
 Ser Ser Ala Thr Leu Gly Gln Glu Asp Leu Asn Gln Gln Leu Leu  
 350 355 360  
 Glu Gly Gln Ala Ala Glu Ala Gln Ser Arg Ile Pro Trp Asp Ser  
 365 370 375  
 Thr Gln Val Ile Cys Lys Asp Trp Ser Asn Leu Ala Gly Lys Asn  
 380 385 390  
 Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile Asp Cys Glu Val Phe  
 395 400 405  
 Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu Val Glu Glu Val  
 410 415 420  
 Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp His Ile Ser  
 425 430 435  
 Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met Thr Leu  
 440 445 450  
 Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser Met  
 455 460 465  
 Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn  
 470 475 480  
 Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg  
 485 490 495  
 Ser Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala  
 500 505 510  
 Ile Cys Ile Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp  
 515 520 525  
 Gln Arg Arg Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu  
 530 535 540  
 Leu Arg Phe Val Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp  
 545 550 555  
 Val Ala Ser Asp Ser Gln Ser Glu Met Gln Glu Lys His Pro Ser  
 560 565 570  
 Leu Asn Gly Gly Gly Ala Leu Asn Gly Pro Gly Ser Trp Gly Ala  
 575 580 585  
 Leu Met Gly Gly Lys Arg Asp Pro Glu Asp Ser Asp Val Phe Glu  
 590 595 600  
 Glu Asp Thr His Leu  
 605

<210> 75

<211> 97

<212> PRT

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<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2993326

<400> 75

Met Thr Gly Arg Phe Lys Ala Cys Gln Val Ile Leu Gly Leu Leu  
1 5 10 15  
Val Ala Ile Ser Leu Ala Ala Gly Thr Gly Gly Ala Ala Gly Ala  
20 25 30  
Ala Leu Val Ile Val Phe Ile Gly Ala Phe Leu Val Leu Leu Phe  
35 40 45  
Leu Gly Arg Leu Thr Thr Gly Gly Ser Met Ala Arg Glu Ser Leu  
50 55 60  
Val Ala Ala Asn Arg Val Cys Ile Ser Arg Thr Leu Ser Ser Ser  
65 70 75  
Val Val Ser Val Cys Ile Ser Gly Gly Lys Gly Ser Pro Arg Leu  
80 85 90  
Pro Gly Gly Gly Arg Gly Pro  
95

<210> 76

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3001124

<400> 76

Met Val Thr Leu Val Ser Asp Thr Ala Met Thr Pro Ile Ala Ser  
1 5 10 15  
Val Asp Thr Ile Ala Val Cys Leu Phe Ala Gly Ala Trp Gly Gly  
20 25 30  
Ala Met Val Pro Met His Leu Leu Gly Arg Leu Glu Lys Pro Leu  
35 40 45  
Leu Leu Leu Cys Cys Ala Ser Phe Leu Leu Gly Leu Ala Leu Leu  
50 55 60  
Gly Ile Lys Thr Asp Ile Thr Pro Val Ala Tyr Phe Phe Leu Thr  
65 70 75  
Leu Gly Gly Phe Phe Leu Phe Ala Tyr Leu Leu Val Arg Phe Leu  
80 85 90  
Glu Trp Gly Leu Arg Ser Gln Leu Gln Ser Met Gln Thr Glu Ser  
95 100 105  
Pro Gly Pro Ser Gly Asn Ala Arg Asp Asn Glu Ala Phe Glu Val  
110 115 120  
Pro Val Tyr Glu Glu Ala Val Val Gly Leu Glu Ser Gln Cys Arg  
125 130 135  
Pro Gln Glu Leu Asp Gln Pro Pro Pro Tyr Ser Thr Val Val Ile  
140 145 150  
Pro Pro Ala Pro Glu Glu Glu Gln Pro Ser His Pro Glu Gly Ser  
155 160 165



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Arg Arg Ala Lys Leu Glu Gln Arg Arg Met Ala Ser Glu Gly Ser  
170 175 180  
Met Ala Gln Glu Gly Ser Pro Gly Arg Ala Pro Ile Asn Leu Arg  
185 190 195  
Leu Arg Gly Pro Arg Ala Val Ser Thr Ala Pro Asp Leu Gln Ser  
200 205 210  
Leu Ala Ala Val Pro Thr Leu Glu Pro Leu Thr Pro Pro Pro Ala  
215 220 225  
Tyr Asp Val Cys Phe Gly His Pro Asp Asp Asp Ser Val Phe Tyr  
230 235 240  
Glu Asp Asn Trp Ala Pro Pro  
245

<210> 77

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3120070

<400> 77

Met Ile Arg Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Ile Leu  
1 5 10 15  
Pro Leu Leu Leu Leu Ser Ala Ile Ala Phe Asp Ile Ile Ala Leu  
20 25 30  
Ala Gly Arg Gly Trp Leu Gln Ser Ser Asp His Gly Gln Thr Ser  
35 40 45  
Ser Leu Trp Trp Lys Cys Ser Gln Glu Gly Gly Gly Ser Gly Ser  
50 55 60  
Tyr Glu Glu Gly Cys Gln Ser Leu Met Glu Tyr Ala Trp Gly Arg  
65 70 75  
Ala Ala Ala Ala Met Leu Phe Cys Gly Phe Ile Ile Leu Val Ile  
80 85 90  
Cys Phe Ile Leu Ser Phe Phe Ala Leu Cys Gly Pro Gln Met Leu  
95 100 105  
Val Phe Leu Arg Val Ile Gly Gly Leu Leu Ala Leu Ala Ala Val  
110 115 120  
Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val Lys Tyr Thr Gln  
125 130 135  
Thr Phe Thr Leu His Ala Asn Pro Ala Val Thr Tyr Ile Tyr Asn  
140 145 150  
Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr Ile Ile Leu Ile Gly  
155 160 165  
Cys Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr Glu Asp Asp Leu  
170 175 180  
Leu Gly Asn Ala Lys Pro Arg Tyr Phe Tyr Thr Ser Ala  
185 190

<210> 78

<211> 128

<212> PRT

<213> Homo sapiens

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<220>

<221> misc\_feature

<223> Incyte ID No: 3133035

<400> 78

Met Asn Met Lys Gln Lys Ser Val Tyr Gln Gln Thr Lys Ala Leu  
1 5 10 15  
Leu Cys Lys Asn Phe Leu Lys Lys Trp Arg Met Lys Arg Glu Ser  
20 25 30  
Leu Leu Glu Trp Gly Leu Ser Ile Leu Leu Gly Leu Cys Ile Ala  
35 40 45  
Leu Phe Ser Ser Ser Met Arg Asn Val Gln Phe Pro Gly Met Ala  
50 55 60  
Pro Gln Asn Leu Gly Arg Val Asp Lys Phe Asn Ser Ser Ser Leu  
65 70 75  
Met Val Val Tyr Thr Pro Ile Ser Asn Leu Thr Gln Gln Ile Met  
80 85 90  
Asn Lys Thr Ala Leu Ala Pro Leu Leu Lys Gly Thr Ser Val Ile  
95 100 105  
Gly Ala Gln Ile Ile His Thr Trp Thr Lys Tyr Phe Trp Lys Ile  
110 115 120  
Tyr Ile Cys Tyr Gly Asn His Leu  
125

<210> 79

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3436879

<400> 79

Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val  
1 5 10 15  
Ser Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu  
20 25 30  
Leu Phe Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr  
35 40 45  
Tyr Ala Ala Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu  
50 55 60  
Ile Tyr Ser Leu Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser  
65 70 75  
Ile Phe Cys Ala Trp Cys Ser Leu Gly Phe Ile Val Ala Ala Gly  
80 85 90  
Gly Leu Cys Ile Ala Tyr Pro Phe Ile Ser Arg Thr Lys Ile Ala  
95 100 105  
Gln Leu Lys Ser Gly Arg Asp Ser Thr Val  
110 115

<210> 80

<211> 1869

<212> DNA

PF-0526 USN

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 153831

<400> 80

gcgagcggct ggcggatccg acgcgcgaga cggggagggg acgagggcgt tgcaatcggt 60  
cggggcgggg gctttccggg gagggggtgc tcaggtgcac cagcggcggc ggaccctcag 120  
actctgccct cccctccctt taacccccct ccagccggac gggaggcggg gcagggctga 180  
gcatttgtga cacctacatt tccgtggctc ccttcttttc ccccgacccc tgtttatctc 240  
ttcgcttcc agaagtctt tccatcagg ccgtcgcacc ttgctggga aggagcacc 300  
cacttggaag caggaggcgg ggttcagatc ttggccctac cctcctgtg ttaaagtccg 360  
cgagcctcag tttccctcac agtatTTTTT gcctcgcctt acccggtttt gaggatctgt 420  
acgagaaaaga gaaaggaagt ggacatttgt tgaattcctg catggccaaa taccacgcag 480  
actgcttcat cggccacgtt taatccttat tacttggtgt tctcagaact cccatttcat 540  
ggattcttaa gctcacagag tcagtgaata acagaaaggg attcagatct agccgtttag 600  
ctgcacagtg gagttcttct ccagagtctt ccttgtctg ggctctggct ggaactattc 660  
ctcagccaaa tctcgcgcc agaacagtgc ttcctgttcc tccagctgag aagtctccct 720  
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gcaygcaca acctgcact gtgtctggcc caccaccac ctctggtctg tgccactttg 1080  
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aaggtttttag aaaaagtga gagctggaat gtgggggaaa ataaaaagct tttttgcca 1860  
aaaaaaaaa 1869

<210> 81

<211> 1044

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 350629

<400> 81

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aaaacagaaa agtattactg ttaaacaata atagagaaat gtatacttta ttacaaaatt 120  
tctccctcta gctgatcata cagttgacca gttcaggggt cccgctgctg gttggatgcc 180  
aggcggaatg tcagggtggt ctctggtgtc tgttgtggct gtgggatcca cggttactgg 240

gcgagcctg tgggtgctgt ggtgccatgg aggggctgcg atcttctgtg gagctggacc 300  
 ctgagctgac tccaggggaag ctggatgagg agatgggtggg gctgccaccc catgacgcga 360  
 gtcctcaagt cactttccac agcctcgatg ggaagacagt ggtgtgtcca cacttcatgg 420  
 gcttactgct ggggtctctta cttttattga ctttgtctgt taggaaccaa ctctgtgtaa 480  
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 ttggcaagaa aacagattgt agagactgag gcatctttaa aagatgtcag ggtacagaaa 600  
 aagtctttca acacccccgg cttttagatg gcctacaaga aggtgaatag caccaacgag 660  
 atgctgatgg agaaaatttac caccctcggt caagaactga aagaagagac atcctccaga 720  
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 caatggtctg taaatatgat ttatgtatta atctcctaag tgaacaattt atattttatc 960  
 ctctacataa ttatcgattt atgcttttaa tatatattta gtttatcaat aaagacattc 1020  
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&lt;210&gt; 32

&lt;211&gt; 3079

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 729171

&lt;400&gt; 82

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 aaaaaacaag atccatgagt gggcatcgat caacaaggaa aagatgtgga gattcccacc 180  
 cggagtcccc agtgggcttc gggcatatga gtactacagg atgtgtatta aataaattgt 240  
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 atcaaaagtgc tggacgggtcc ctgcttgagc ccttagtgca aggttattgg gaatggctcg 360  
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 gtgggaaaca ggcaagaaga accaatagta gttctcctct gggagaactt tttgatcatg 600  
 gctgtgatcc actatcaaca gtttttgtgg ttcttggaaac ttgtatagca gtgcagctgg 660  
 ggacaaaccc tgattggatg tttttttggt gttttgctgg gacatttatg ttctatttgt 720  
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 aatctatgat tccagtgtcg aatattcaaa tgaaaatttt tcctgcactt tgtactgtag 900  
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 ccttggtttt ctctttcttt gatttgatcc gctactgtgt cagtgtttgc aatcagattg 1320  
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 ttaaggagaa tgggggtgga taagaacaaa tataatttat aataatcaat gttgtataac 1500  
 ttttattctt tattattggt aacacgccct aactatcctg tgtgagaatg ggaatttcaa 1560  
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 aaaaaatgcc atgtgattgt aattatcctg gattcagaat aatactgtga tggggagcca 1680  
 gatccgcagt ggtggagagt tctaattgtg actgttttga ggccaaaaga tgattgcttt 1740

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agtaataaag accttgaatt tggattgaaa agtttccat ctttacattg ttgaggaagt 1920  
cctttttttt tttttttttt tttttaattg ctcaagaaat gattctctca caggcttggg 1980  
aaatcctgtt agcatgcaga ataattgtgt aactttgtca atttccatt ttattttttt 2040  
aaataaatat atgatctaaa agccaacttt ttctcagttt tactcagtg aaagataaac 2100  
taagttttaa tgttattttt ttaaatttaa gcaaaattta tttctgttct ttaataaata 2160  
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<211> 1298

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1273641

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<212> DNA

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<220>

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<223> Incyte ID No: 1427389

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<211> 1359

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<211> 1397

<212> DNA

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<223> Incyte ID No: 1536052



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<211> 1570

<212> DNA

<213> Homo sapiens

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<400> 89

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<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 1675560

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<211> 904

<212> DNA

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<211> 1948

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1692236

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<400> 92

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<211> 990

<212> DNA

<213> Homo sapiens

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<220>

<221> misc\_feature

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<210> 94

<211> 1638

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1752821

<400> 94

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<211> 595

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1310923

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<210> 96

<211> 1858

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1822315

<400> 96

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<210> 97

<211> 698

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1977777

<400> 97

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<210> 98

<211> 1476

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1879819

<400> 98

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<211> 546

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1932945

<400> 99

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<211> 1735

<212> DNA

<213> Homo sapiens

<220>

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<400> 100

PF-0526 USN

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<211> 2329

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2096687

<220>

<221> unsure

<222> 2084, 2101, 2110, 2128, 2137, 2156, 2177, 2226, 2265, 2296, 2303, 2310, 2325

<223> a, t, c, g, or other

<400> 101

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&lt;211&gt; 1451

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 2100530

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&lt;222&gt; 1346, 1373, 1430

&lt;223&gt; a, t, c, g, or other

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&lt;211&gt; 1685

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 2357636

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<211> 1028

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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&lt;211&gt; 1551

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&lt;223&gt; Incyte ID No: 2543486

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 2778171

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&lt;211&gt; 1851

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<212> DNA

<213> Homo sapiens

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<211> 1581

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<213> Homo sapiens

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<211> 1815

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

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<210> 119

<211> 1055

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> Incyte ID No: 2198863

<220>

<221> unsure

<222> 1032, 1037, 1042

<223> a, t, c, g, or other

<400> 119

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gatccacggg ctttagatgt gcagagatgt ggagcgcat gccaggtagg gtgagcagt 180  
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gatectcaag cacagcccg agtccagccg tggccagtgt ggggagaacc ttgcatgggc 540  
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tgtgtgtgtg atgcatgtga gcgctctctg cacacacatt ggcatacagt tccgtgttgc 960  
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<210> 120

<211> 1956

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3250703

<220>

<221> unsure

<222> 1893, 1896, 1899, 1906, 1911, 1921, 1926-1929, 1932, 1935, 1940, 1948, 1950-1951, 1953

<223> a, t, c, g, or other

<400> 120

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ctgtgatggg acaaaaagggt ggatcaaaag gccgattacc aagtgaattt tcccaatttc 180  
cacacggaca aaaggggccag cactattctg gacaaaaagg caagcaacaa actgaatcca 240  
aaggcagttt ttctattcaa tacacatata atgtagatgc caatgatcat gaccagtccc 300  
gaaaaagtca gcaatatgat ttgaatggc tacataagac gacaaaatca caacgacatc 360  
taggtggaag tcaacaactg ctccataata aacaagaagg cagagaccat gataaatcaa 420  
aaggtcattt tcacagggtg gttatacacc ataaaggagg caaagctcat cgtgggacac 480  
aaaatccttc tcaagatcag ggggaatagcc catctggaaa ggggaatatcc agtcaatatt 540  
caaacacaga agaaaggctg tgggttcctg gactaagtaa agaacaaact tccgtctctg 600  
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 tatctacata gccctgttgc ttagcaaccc attgaaaagc tggaccaata gcaagggtgc 1860  
 accccgacct cagtgaagta gggttcgttt gancngant aggaangggg nccggaaggc 1920  
 naaaannnnt anttnagccn ctgttgtntn nanacc 1956

<210> 121

<211> 1737

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 350287

<400> 121

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 taacttaata agtgtgctgg aaaaacacag atgttcacag caccactgtt tttttttttt 180  
 ttttttgaga taataaattc catgagaat ctgggtttga atatttggtt actttgtctc 240  
 ctaattgaac accactccag gccttctgtc tgtctcccct ttaccccca aatattcaca 300  
 aaaaaaattt taagacaaca agtaaccata tataggtgtt tgaatgattt tctcattttt 360  
 atctaatttc atttcataag tcccgagtaa tttacctacc ataggctact atactgataa 420  
 tataaatgaa accgaacatt ttttgctact aactctcccc aatttaattg gttttcgaaa 480  
 taaaaattta aatttttttc cttttaatta aaaagtcac tttgaagtcc ttattggctg 540  
 tacattttac atgtttgctg gtactattat tttgtcagtg agttaaagct ggcattgtaca 600  
 gctcttggtt ttaatgaaa gcacattgac ataattgttag taaattccaa accccggcac 660  
 agaattgtgag ttaaaattaa gtcttgctgg gttagtgtac aataaactat acctacagac 720  
 ttttttttaa tagaaagaag acaaagctgc tggatatagga tttgttcctt tgaagaaaaa 780  
 atgagggaaa caaacacaaa aacctcaatg cagtgtataa ataacatttt gttcaactac 840  
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 atgtgccacc attatagtat tcttagacat gagcttgatg aatggtatc tgtaattata 1200  
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acgtgacagc atttaaatct gtataaagaa caatggaagg atccttattg aattgttgct 1680  
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<210> 122

<211> 789

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1618171

<400> 122

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ctcgcaataa tcttctcgct tctctaacta gttgactttc attatggatg gggataggct 180  
aaaaaacggg cccttgggat ggctgtgctg ccatcagtgc tgttggttta ctcactcttt 240  
tctgtcttc gtttttgcac gctactgctc ctgacctctt acagccacag tagaagcggg 300  
agaggcccg gaaggtatgg ccatattact ctgatagatg tgatccatgt gtctgtgtac 360  
tgggttttcc aagctttatc aacatttcaa atattttatt attgcatcac cagaactata 420  
acagtgaaga aaggtatagt tgtttctagg catgttaacg aagcaggtgt ttcttttgtg 480  
tcctatcttt gcattaattt taaataacct tcaccacagc tacagttttt tttctgggct 540  
ctatcagctt taatgcaacg gcagaagctt aagcaactgg tcatgagagg tcaagtgggt 600  
tacttctgta tccttccat gtacaagaga catccatttg attctcaaga gagccaaata 660  
ggtcagcctc ttcagcgatt ctaaaagatt tcaagagcag aggcaggaag taggactggg 720  
aatttagttc aattcattat cggagggttg cctaaggtag ggcaagtta aatttaactt 780  
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<210> 123

<211> 1116

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1625863

<400> 123

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aaaatgccta ccacaaagaa gacattgatg ttcttatcaa gctttttcac cagccttggg 180  
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gtttttgtga ccatgatact gtttgtggcg aacacgcagt ccaaccaact ctccgaagag 600

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ttctaccaga aggccagata ccagcggaag caggagcaga gaaagccaat ggaatatgct 780  
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aaataataaa aggctgtgtc atgtttcttt tcaaaa 1116

<210> 124

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1638353

<400> 124

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cagtttcgga gcggatgaat gccctgttcg tgcagtttgc tgaggtgttc ccgctgaagg 180  
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<210> 125

<211> 2016

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1726843

<400> 125

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atccccaga accgtaacta ttgtggccct ctcatggcc ctgggactct tctttgtttt 180  
catggggact atcaagctga cccccaggct cagcaaggat gcctacagt agatgaaacg 240  
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<210> 126

<211> 2067

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1754506

<400> 126

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<210> 127

<211> 2180

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1831378

<400> 127

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<210> 128

<211> 991

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1864943

<400> 128

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cgcgctttt gggcggtatt caactgtctg tgcgcggcg cgttcggggc cctggcgcgc 180  
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<210> 129

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1911316

<400> 129

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catatattgt tatcactgga tttgaagtca cggttatctt atttttcata ctttttatg 300  
tactcagact tgatcgatta atgaagtggg tattttggcc tttgcttgat attatcaact 360  
cactggtaac aacagtattc atgctcatcg tatctgtgtt ggcactgata ccagaaacca 420  
caacattgac agttgggtgga ggggtgtttg cacttgtgac agcagtatgc tgtcttgccg 480  
acggggccct tattttaccgg aagcttctgt tcaatcccag cggtccttac cagaaaaagc 540  
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attaaacata tttctgtatt cttccaaaaa aaaaaaa 637

<210> 130

<211> 2631

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1943120

<400> 130

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<210> 131

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2314236

<400> 131

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tgtatgttta aacatgaatt agaagagttg agaactacca ttatgtatag ggattctcat 130
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<210> 132

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2479409

<400> 132

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tcttagtgga gactgggggt caccggggta accaagaatg gctcggatct ctttaacccc 480
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c 541
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<210> 133

<211> 1922

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2683149

<400> 133

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aa 1922

<210> 134

<211> 840

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2774051

<220>

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<221> unsure

<222> 814

<223> a, t, c, g, or other

<400> 134

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<210> 135

<211> 1344

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2369038

<400> 135

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<210> 136

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2918334

<400> 136

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<211> 467

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

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<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2989375

<400> 138

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<212> DNA

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<211> 964

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2454048

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<211> 1385

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2483432

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&lt;210&gt; 146

&lt;211&gt; 2031

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2493824

&lt;400&gt; 146

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<210> 155

<211> 1222

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3001124

<400> 155

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tggtctttgct gggcataaag acggacatca ccccggttgc ttatttcttt ctacattgg 240  
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cctttgaagt gccagtctat gaagaggccg tgggtgggact agaatcccag tgccgcccc 420  
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<210> 156

<211> 1983

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3120070

<400> 156

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<210> 157

<211> 1835

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3133035

<400> 157

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<210> 158

<211> 819

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3436879

<400> 158

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